APPROVED BY DRAFTSMAN | CLASS | SUBCLASS

PATENT & TRADEMARK OFFICE JAN 21 2003 OIPE 3C1156

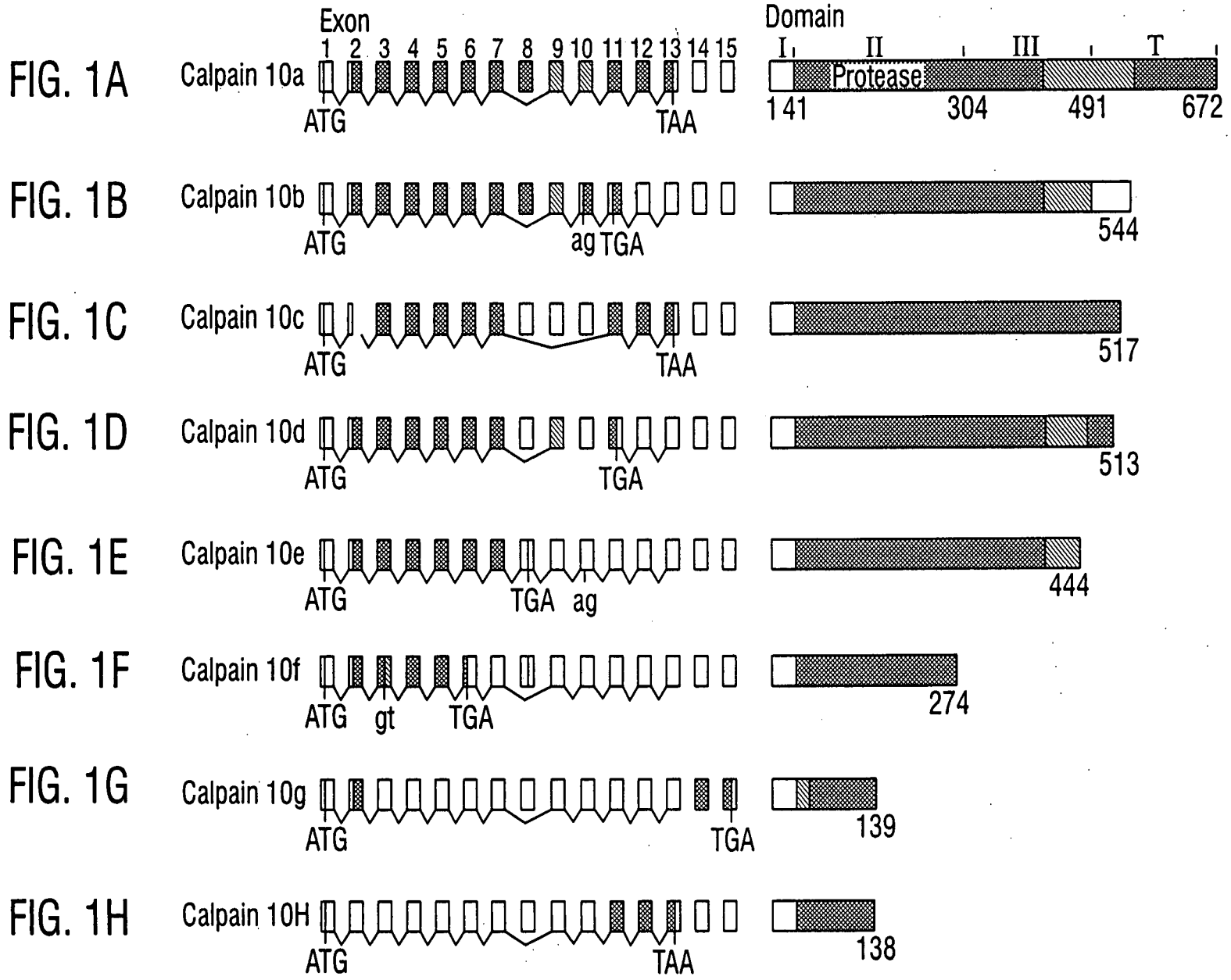

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FIG. 2A	FIG. 2B	FIG. 2C

FIG. 2

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O.G. FIG.
CLASS
SUBCLASS

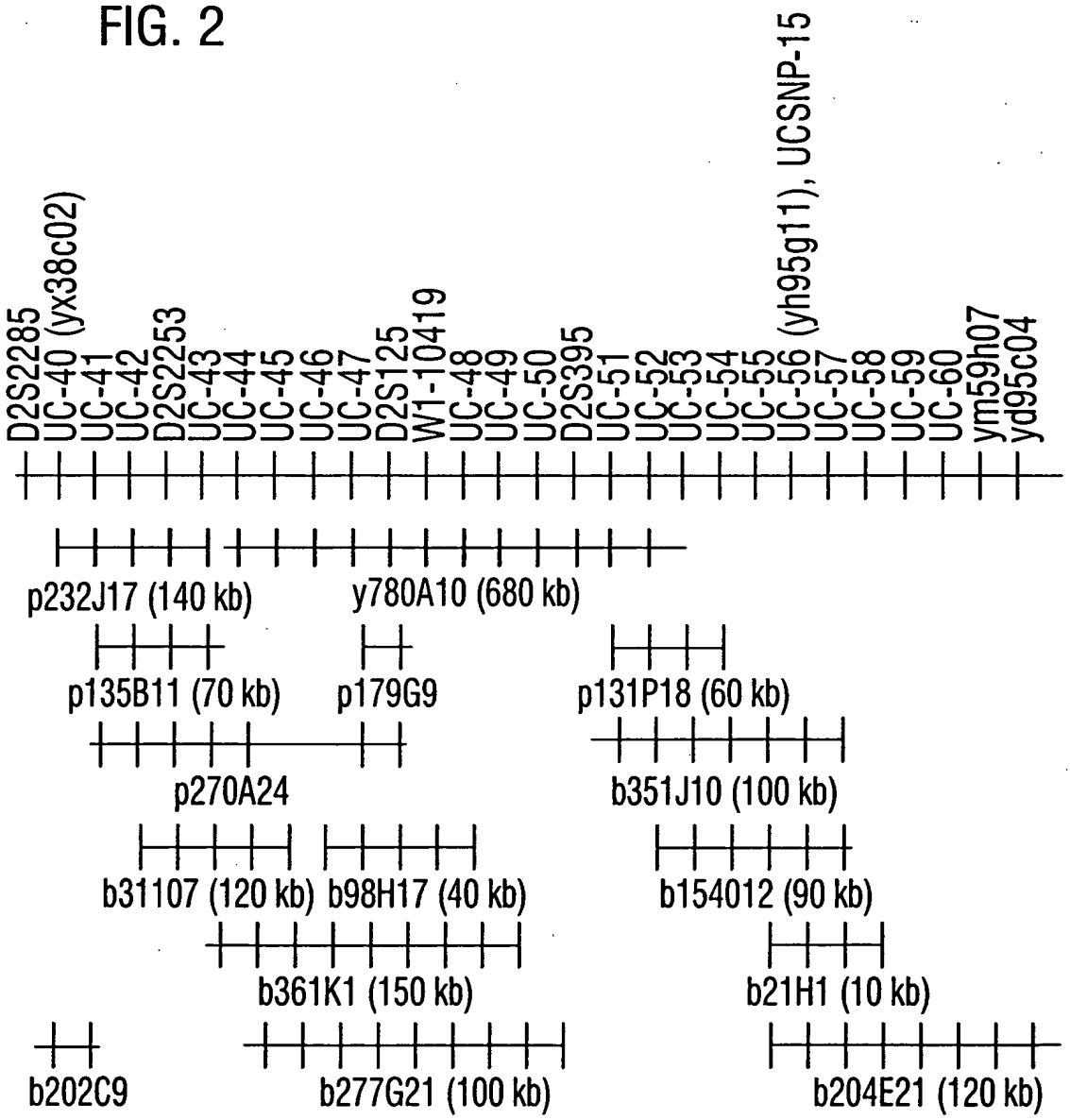

FIG. 2A

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APPROVED O.G. FIG.
BY
CLASS
SUBCLASS
DRAFTSMAN

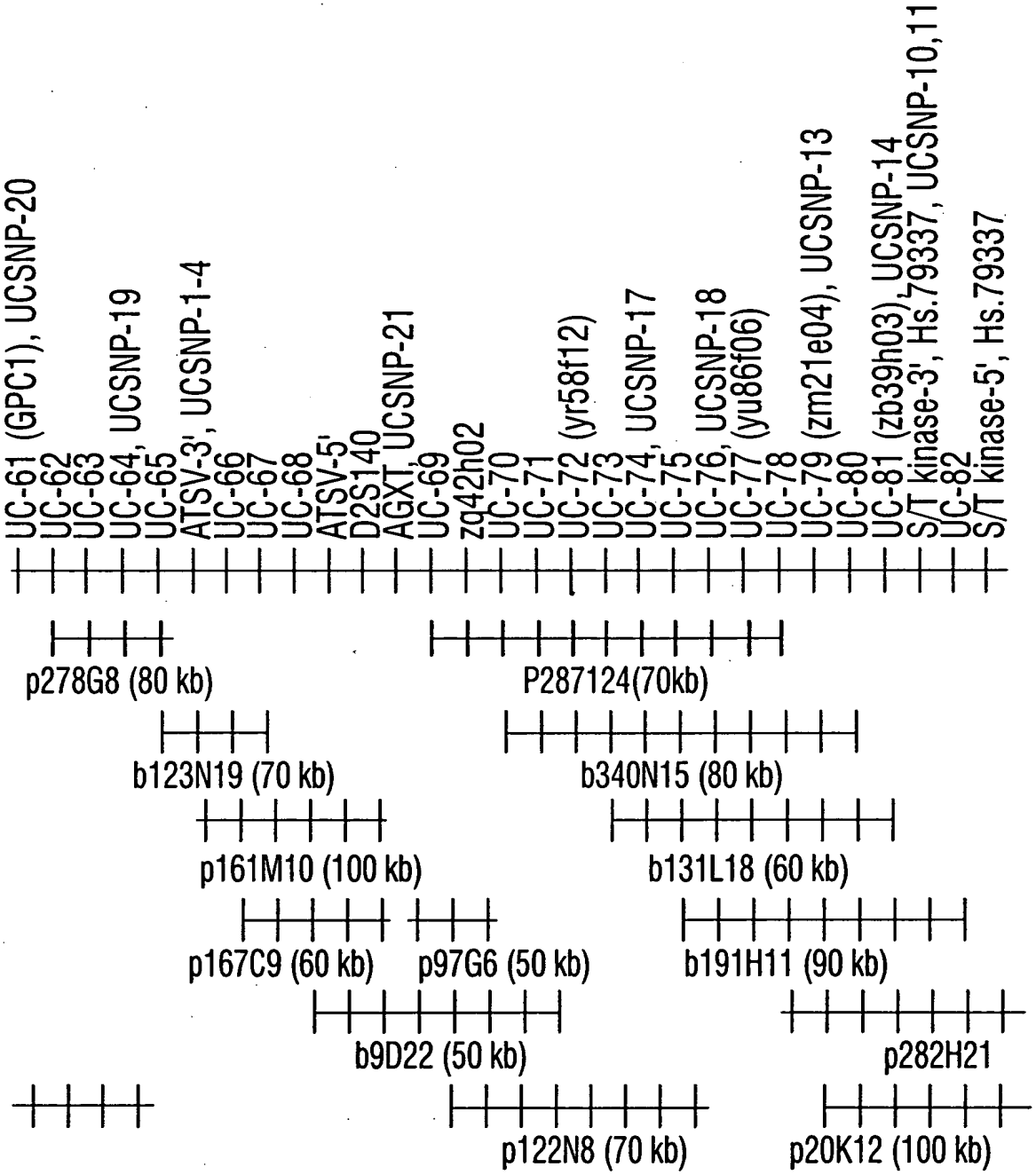

FIG. 2B

OIPE JG156
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PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

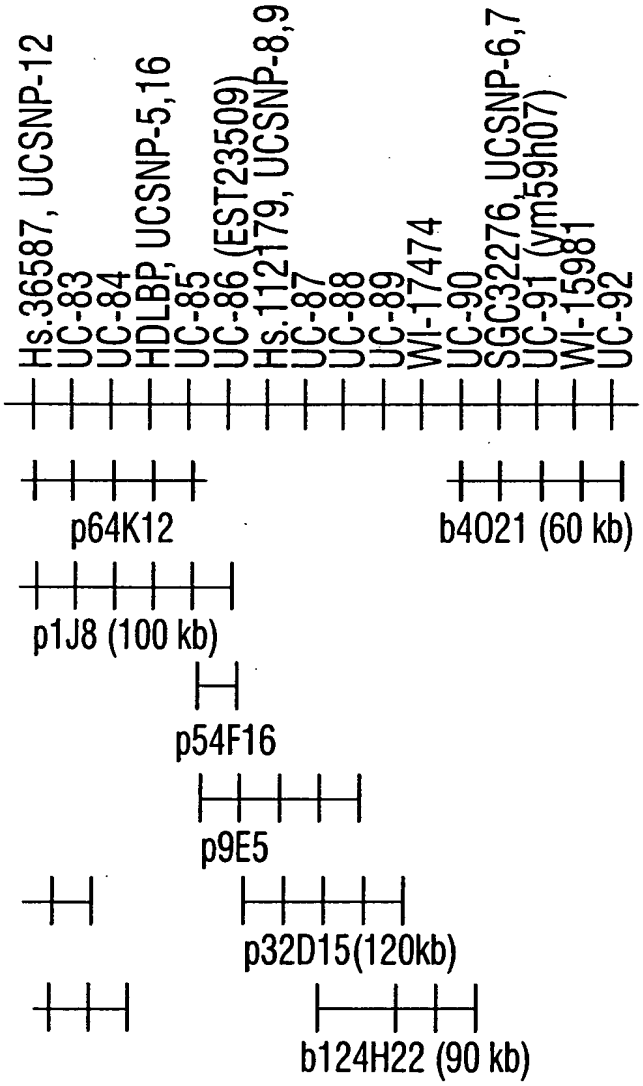

FIG. 2C

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APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

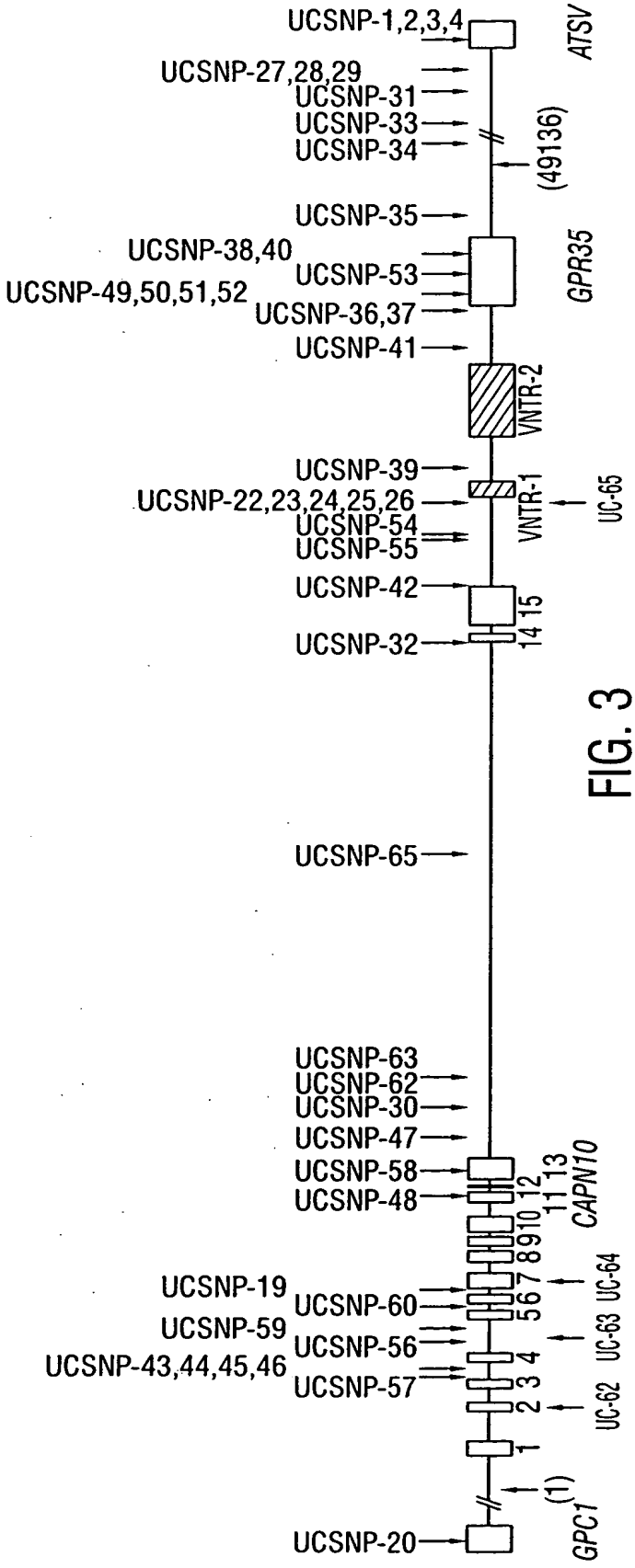

FIG. 3

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APPROVED O.G. FIG.
BY
DRAFTSMAN
CLASS
SUBCLASS

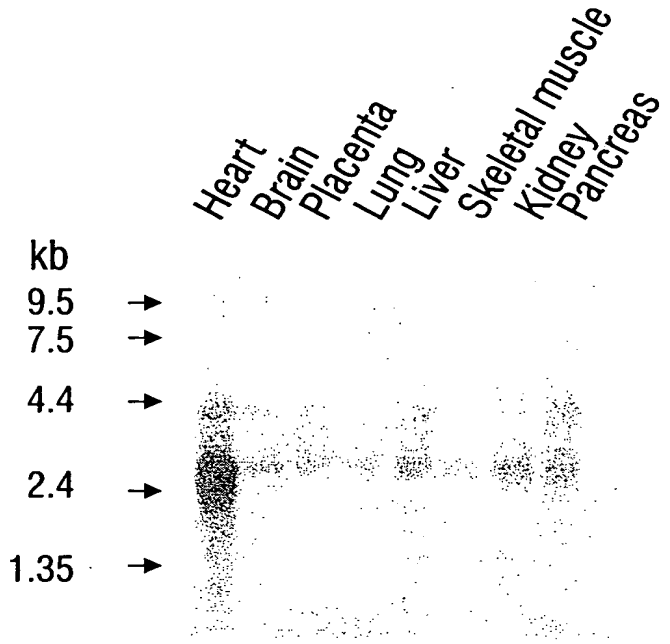

FIG. 4

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hCAPN5

MFSCVKPYEDQNYSALRQDCRRRK
MVDVVIDERLPTVNNQLIYCHSNS
RKVRLGHGLLAFFKSEKLDMIRLR
QYIFEVKKPEDEVLICIQQRPKRS
VTQVHVLGAAGLKDSPTGANSYVI

mCAPN6

MGPPLKLFKNQKYQELKQECMKDG
EWTEVVIDDLLPTINGDLVFSFST
IRKLRLGERLVEVFSTEKLYMVRL
IFTVPEDGHKVIMSLQQKDLRTYR
VTQITVHSAEGLEKKYANETVNPY

hCAPN3

MPTVISASVAPRTAAEPRSPGPVP
WFLAAIACLTLNQHLLFRVIPHDQ
GSLMGCSIDDGTNMTYGTSPSGLN
QHQVTEDGEFWMSYEDFIYHFTKL
KQHLQKDFFLYNASKARSKTYINM
QESEEQQQFRNIFKQIAGDDMEIC
MNIDFDSFICCFVRLEGMFRAFHA

FIG. 5A

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VLFEDPLFPATDDSLYYKGTPGPAV
RNEFWCALVEKAYAKLAGCYQALDG
NPWGEREWNGPWSDTSEEWQKVSKS
TRREGKGENLAIGFDIYKVEENRQY
IKCEGDKVRSAVQKGTSTPEYNVKG

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BY
DRAFTSMAN
CLASS
SUBCLASS

RLFCDPTFLPENDSLFFNRLLPGKV
SMNEFWNALLEKAYAKLLGCYEALD
RNPLGRQEWSGPWSEISEEWQQLTV
RMGRPDNYIIGFELFKVEMNRRFRL
LIIKCGKEEVRSPVQKNTVHAIFDT

HPAQSKATEAGGGNPSGIYSAIISR
SFIENYAGIFHFQFWRYGEWVDVVI
MGELIARMVRNMDNSLLQDSDLDPR
EICNLTADALQSDKLQTWTVSVNEG
REVSQRFRLPPSEYVIVPSTYEPHQ
ADELKKVLNTVVNKHKDLKTHGFTL
FDKDGDGIIKLNVLEWLQLTMYA 8

FIG. 5B

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SUCCUMB
CLASS
BY
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RWKRPKGICEDPRLFVDGISSHDLH
GNTADALVDFTGGVSEPIDLTEGDF
EREKMGVTVQDDGEFWMTFEDVCRY
RMHSLQHKAASSIYINSRSVFLRTD
IFYRKKLSQPITVQVWNHRVLKDEF

VWKRPQDISDDPHLIVGNISNHQLI
GLTITDIIMDFTGTLAEIIDMQKGR
TDRKNLGLVMSDDGEFWMSLEDFCH
HHLYIQERAGTSTYIDTRTVFLSKY
QAVFYRRTTDIPIIIQVWNSRKFCD

NFPIIGVKEKTFEQLHKKCLEKKVL
DDCLPTYNNQLVFTKSNHRNEFWSA
GSDERPTRTIIPVQYETRMACGLVR
RWVRGCSAGGCRNFPDTFWTNPQYR
EGEFILRVFSEKRNLSEEVENTISV
ESCRSMIALMDTDGSGKLNLQEFHH
21

FIG. 5C

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O.G. FIG.
CLASS
SUBCLASS
APPROVED BY DRAFTSMAN

QGQVGNCWFVAACSSLASRESLWQK
ANDETKRNQLFERMLKVHSRGGLIS
FTDIIKCRVINTSHLSIHKTWEEAR
QPEGRYVIIPTTFEPGHTGEFLLRV
LGQVHLKADPDNLQALHTLHLRDRN

QGRLGNKAMISAFSCLAVQESHWTK
YTDLVEEKYKLFGELYKTFTKGGLI
NFHKLNVCRNVNNPVFGRKELESVV
LKKGSYVLVPTMFQHGRTSEFLLRI
QFLGQVTLDADPSDCRDLKSLYLRK

YVDPEFPPDETSLFYSQKFPIQFVW
LLEKAYAKLHGSYEALKGGNTTEAM
GHAYSVTGLDEVPFKGEKVKLVRLR
LKLLEEDDDPDDSEVICSFLVALMQ
DRPVKKKKTKPIIFVSDRANSNKEL
LWNKIKAWQKIFKHYDTDQSGTINS

FIG. 5D

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VIPDWKEQEWDPRKAQAYAGIFHFH
ASIKAVTAADMEARLACGLVKGHAY
LHGAWTLHEDPRQNRGGGCINHKDT
FTDVPSNCRELRLDKPPHTCWSSLC
SRQPSNLPGTVAVHILSSTSLMAV

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CLASS
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AIPNHKDQEWDPRKPEKYAGIFHFR
CCSIESPSQEEQEVETDWGLLKGYT
GCWTVDDDPLMNRSGGCYNNRDTFL
FSEVPVQLRELTLDMPKMSCWNLAR
KGGPTAKVKQGHISFKVISSDDLTE

KRPPEICENPRFIIDGANRTDICQG
EDFTGGVAEFFEIRDAPSDMYKIMK
NPWGQVEWNGSWSDRWKDWSFVDKD
KNRRKDRKLGASLFTIGFAIYEVPK
GVDQESEEGKGKTSPDKQKQSPQPQ
YEMRNAVNDAGFHLNNQLYDIITMR

FIG. 5E

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F W R L G
A V T D V
F F Q N P
G Y P Q L
6 3 9

F W H F G
Y T M T D
Q N P Q Y
G Y P K V
L 6 4 1

E L G D C
K A I E R
E K A R L
E M H G N
P G S S D
Y A D K H

APPROVED O.G. FIG.
BY
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FIG. 5F

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hCAPN9

MPYLYRAPGPQAHPVPKDARITHS
IFHFQFWQHSEWLDVVIDDRLPTF
TGIDQVSFRGQRIELIRIRNPWGQ
DEGQEECSFLVALMQKDRRKLKRF
TEEEQRFRALFEQVAGEDMEVTAE
LDFDDFLNCLVRLENASRVFQALS

hCAPN1

MSEEIITPVYCTGVSAQVQKQRAR
LLHRVVPHGQSFQNGYAGIFHFQL
DMEAITFKKLVKGHAYSVTGAKQV
PATFWVNPQFKIRLDETDDPDDYG
KSAGTVELDDQIQANLPDEQVLSE
SAGFKLNKKLYELIITRYSEPDLA

hCAPN2

MAGIAAKLAKDREAAEGLGSHERA
SFQENYAGIFHFQFWQYGEWVEVV
VKGHAYSVTGAEEVESNGSLQKLI
LIKLEEEDEDEEDGESGCTFLVGL
EANLEEFDISEDDIDDGVRRLFAQ
IVARFADDQLIIDFDNFVRCLVRL

FIG. 5G

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SGQSFEQMRQECLQRGTLFEDADFP
RDRLVFLHSADHNEFWSALLEKAYA
VEWNGSWSDSSPEWRSVGPAEQKRL
GANVLTIGYAIYECPDKDEHLNKDF
ELEYVLNAVLQKKKDIKFKKLSLIS
TKNKEFIHLNINEFIHLTMNI 690

ELGLGRHENAIKYLGQDYEQLRVRC
WQFGEWVDVVVDDLLPIKDGKLVFV
NYRGQVVSLIRMRNPWGEVEWTGAW
DRESGCSFVLALMQKHRRRERRFGR
EEIDENFKALFRQLAGEDMEISVKE
VDFDNFVCCLVRLETMFRFFKTLDT

IKYLNQDYEALRNECLEAGTLFQDP
VDDRLPTKDGELLFVHSAEGSEFWS
RIRNPWGEVEWTGRWNDNCPSWNTI
IQKHRRRQRKMGEDMHTIGFGIYEV
LAGEDAEISAFELQTILRRVLAKRQ
ETLFKIFKQLDPENTGTIELDLISW

FIG. 5H

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CLASS
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SGQSFEQMRQECLQRGTLFEDADFP
RDRLVFLHSADHNEFWSALLEKAYA
VEWNGSWSDSSPEWRSVGPAEQKRL
GANVLTIGYAIYECPDKDEHLNKDF
ELEYVLNAVLQKKKDIKFKKLSLIS
TKNKEFIHLNINEFIHLTMNI 690

ELGLGRHENAIKYLGQDYEQLRVRC
WQFGEWVDVVVDDLLPIKDGKLVFV
NYRGQVVSLIRMRNPWGEVEWTGAW
DRESGCSFVLALMQKHRRRERRFGR
EEIDENFKALFRQLAGEDMEISVKE
VDFDNFVCCLVRLETMFRFFKTLDT

IKYLNQDYEALRNECLEAGTLFQDP
VDDRLPTKDGELLFVHSAEGSEFWS
RIRNPWGEVEWTGRWNDNCPSWNTI
IQKHRRRQRKMGEDMHTIGFGIYEV
LAGEDAEISAFELQTILRRVLAKRQ
ETLFKIFKQLDPENTGTIELDLISW

FIG. 5I

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APPROVED O.G. FIG.
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ASNSSLFYSERPQIPFVWKRPGEIV
KLNGSYEALKGGSAIEAMEDFTGGV
CHTALDDGEFWMAFKDFKAHFDKVE
FRYHASRARSKTFINLREVSDRFKL
CKNIISLMDTSGNGKLEFDEFKVFW

LQSGTLFRDEAFPPVPQSLGYKDLG
HSAEGNEFWSALLEKAYAKVNGSYE
SDSSSEWNNVDPYERDQLRVKMEDG
DMETIGFAVYEVPPELVGQPAVHLK
LRTILNRIISKHKDLRTKGFSLESC
DLDGVVTFDLFKWLQLTMFA 714

SFPAIPSALGFKELGPYSSKTRGMR
ALLEKAYAKINGCYEALSGGATTEG
DPEERERLTRRHEDGEFWMSFSDFL
PEELSGQTNIHLSKNFFLTNRARER
DIKSDGFSIETCKIMVDMLDSDGSG
LCFSVL 700

FIG. 5J

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KNPEFILGGATRTDICQGELGDCWL
AETFQTKEAPENFYEILEKALKRGS
ICNLTPDALEEDAIHKWEVTVHQGS
PPGEYILIPSTFEPHQEADFCLRIF
DKLKQWINLFLRFDADKSGTMSTYE

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CLASS
SUBCLASS
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PNSSKTYGIKWKRPTELLSNPQFIV
ALSGGSTSEGFEDFTGGVTEWYELR
EFWMSFRDFMREFTRLEICNLTPDA
RDFFLANASRARSEQFINLREVSTR
RSMVNLMDRDGNGKLGLVEFNILWN

WKRPTEICADPQFIIGGATRTDICQ
FEDFTGGIAEWYELKKPPPNLFKII
RHYSRLEICNLTPDTLTSDTYKKWK
SDTFINLREVLNRFKLPPGEYILVP
KLGLKEFYILWTKIQKYQKIYREID

FIG. 5K

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LAAIASLTLNQKALARVIPQDQSFG
LLGCFIDTRSAAESEARTPFGLIKG
WVRGSTAGGCRNFLDTFWTNPQIKL
SEKKAITRDMDGNVDIDLPEPPKPT
LRTALKAAGFQLSSHLLQLIVLRYA

SUBCLASS
CLASS
BY
DRAFTSMAN

DGATRTDICQGALGDCWLLAAIASL
KAPSDLYQIILKALERGSLLGCSID
LKSRTIRKWNTTLYEGTWRRGSTAG
FRLPPGEYVVVPSTFEPNKEGDFVL
RIRNYLSIFRKFDLDKSGSMSAYEM

GALGDCWLLAAIASLTLNEEILARV
QKALQKGSLLGCSIDITSAADSEAI
LTKMDGNWRRGSTAGGCRNYPNTFW
STFEPNKDGDFCIRVFSEKKADYQA
VDRSGTMNSYEMRKALEEAGFKMPC

FIG. 5L

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P G Y A G
H A Y S V
S L T E K
P P D Q E
D E E L Q

T L N D T
I S S V L
G C R N Y
R F F S E
R M A I E

V P L N Q
T F Q K L
M N P Q Y
V D D E I
Q L H Q V

APPROVED O.G. FIG.
BY
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CLASS
SUBCLASS

FIG. 5M

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rCAPN8

MAALAAGVSKQRAVAEGLGSNQNA
SFQKDYAGIFHFQFWQYGEWVEVV
VKGHAYSVTGVEEVNFHGRPEKLI
KIHLDEVDEDQEEGTSEPCCTVLL
TVSGHPHEPHPRDMDEEDEHVRSL
QQTIAMRYACSKLGVDFNGFVACM

APPROVED O.G. FIG. CLASS SUBCLASS BY DRAFTSMAN

hCAPN10

MRAGRGATPARELFRDAAFPAADS
CLAGRLCFSRCQREDVFWLPLLEK
LRIQNPWGRRCWQGLWREGGEGWS
HAADWAGRARALVGDSHTSWSPAS
VQLRGSWRVGQTAGGSRNFASYPT
IDRPSIHSQEMLGQFLQEVSVMAV

FIG. 5N

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CLASS
SUBCLASS

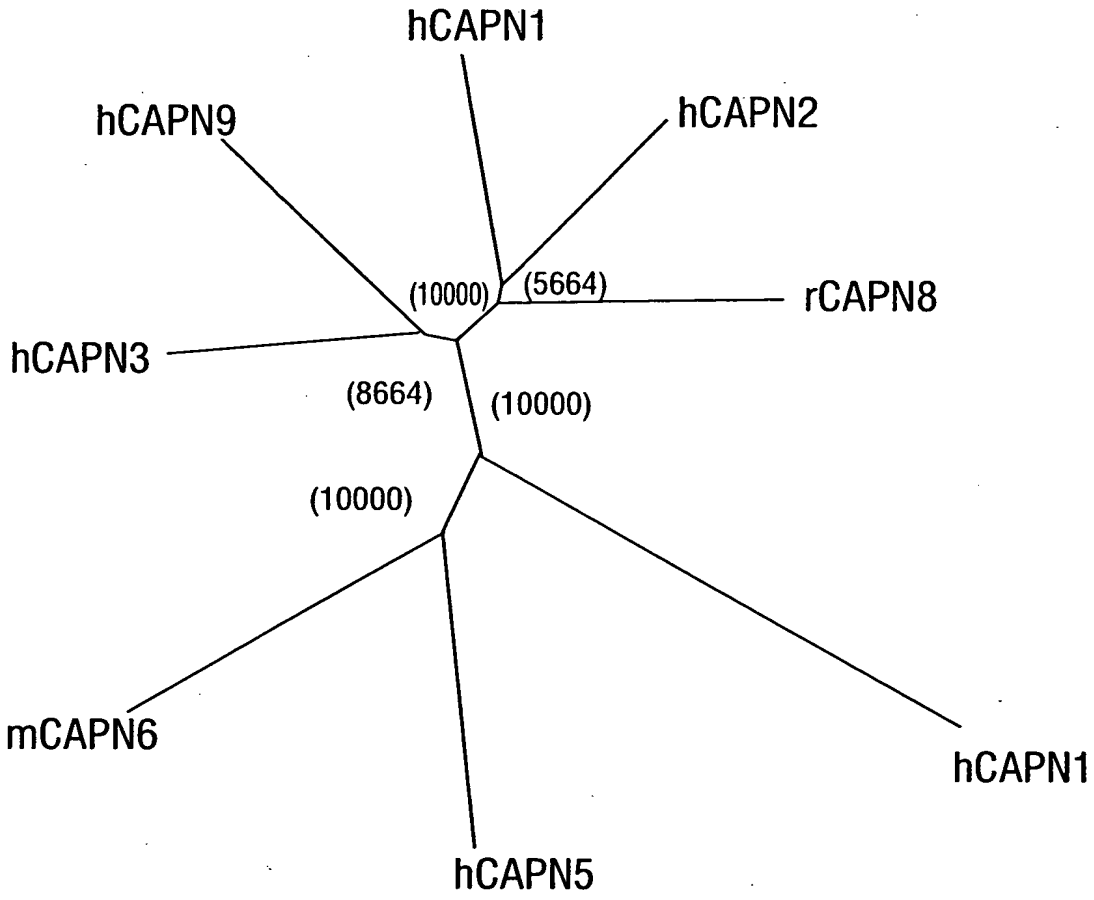

FIG. 6

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APPROVED O.G. FIG.
BY | CLASS | SUBCLASS
DRAFTSMAN

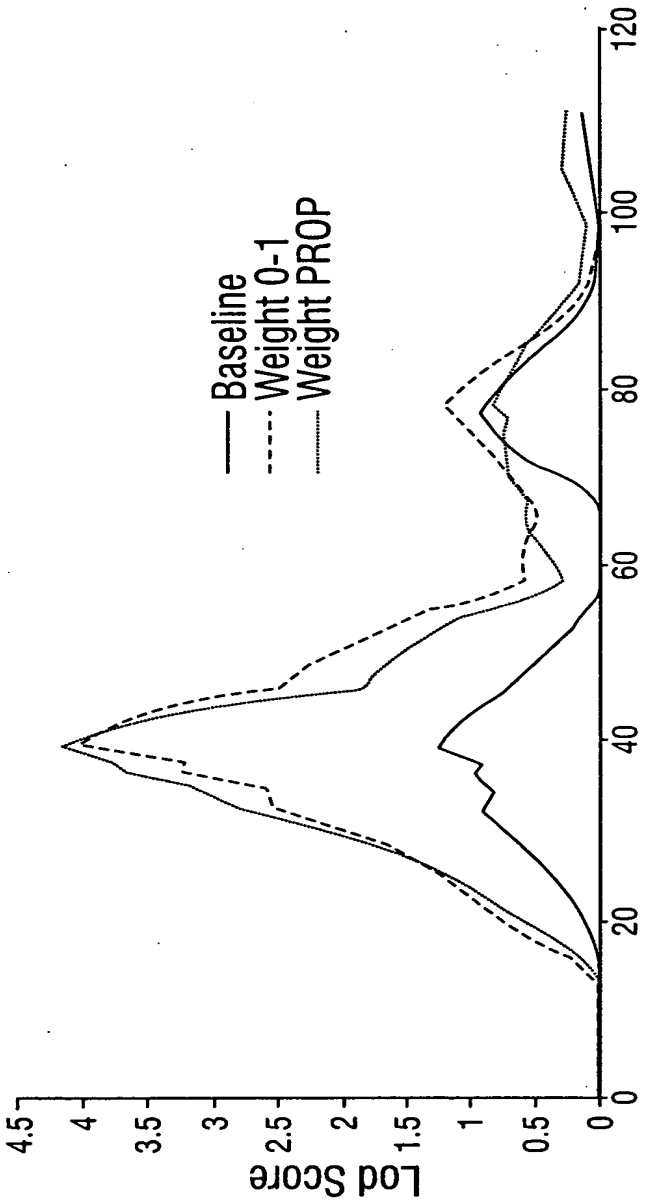

FIG. 7A

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BY
DRAFTSMAN
CLASS
SUBCLASS

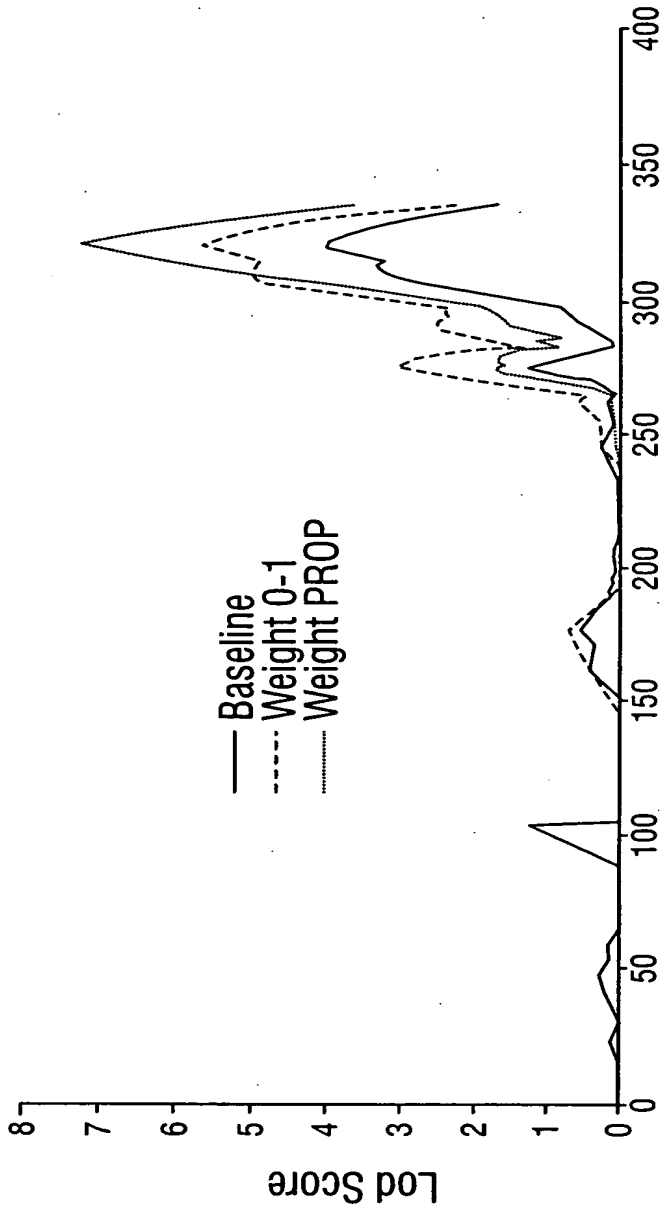

FIG. 7B

OIPE JC156
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APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

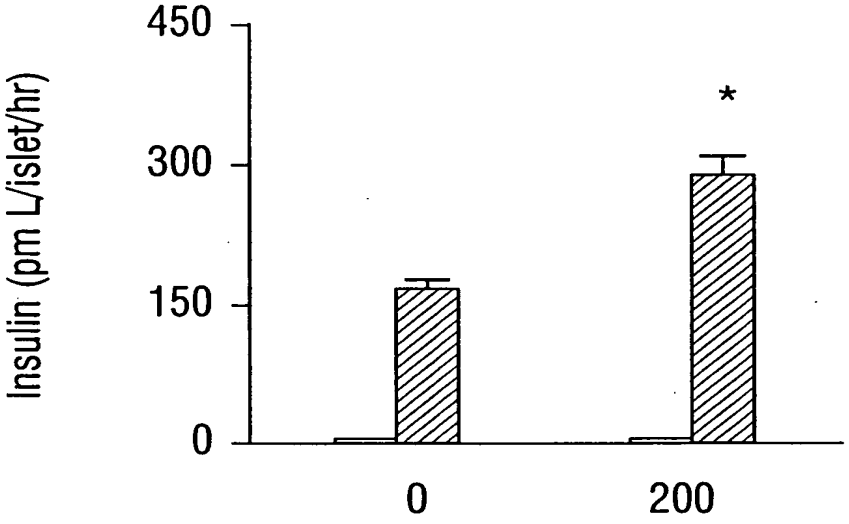

FIG. 8A

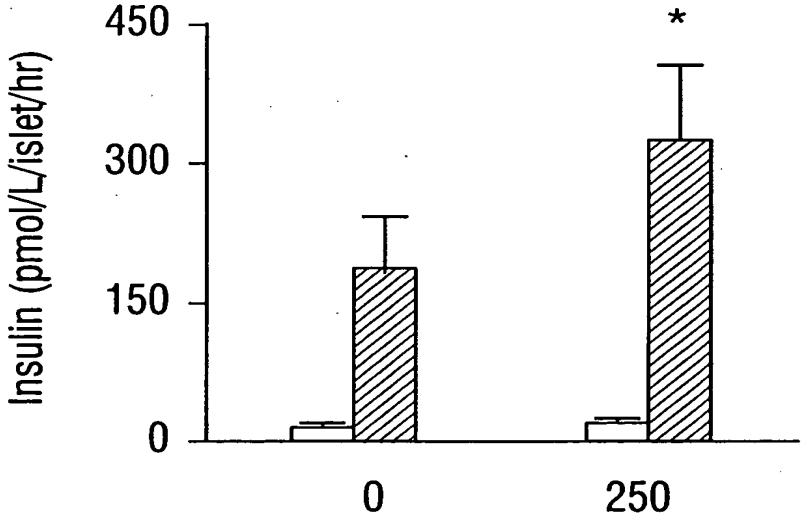

FIG. 8B

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APPROVED O.G. FIG.
BY
CLASS
SUBCLASS
DRAFTSMAN

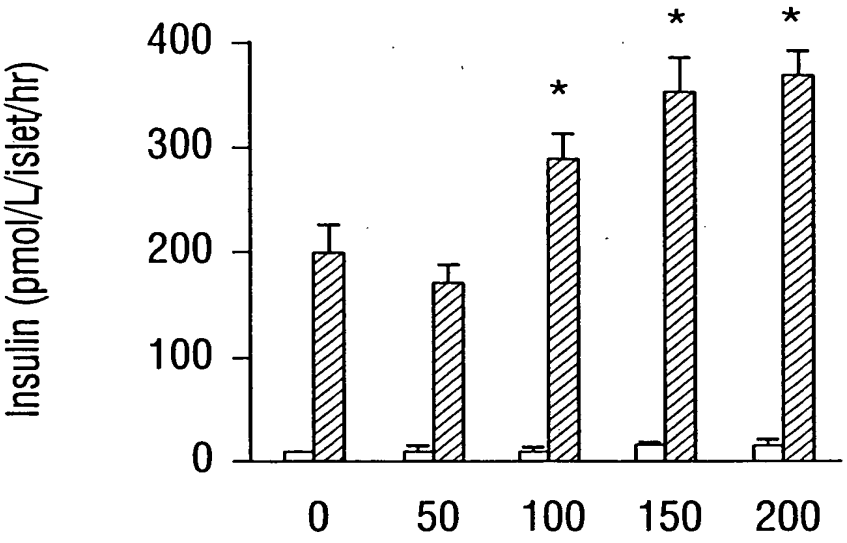

FIG. 8C

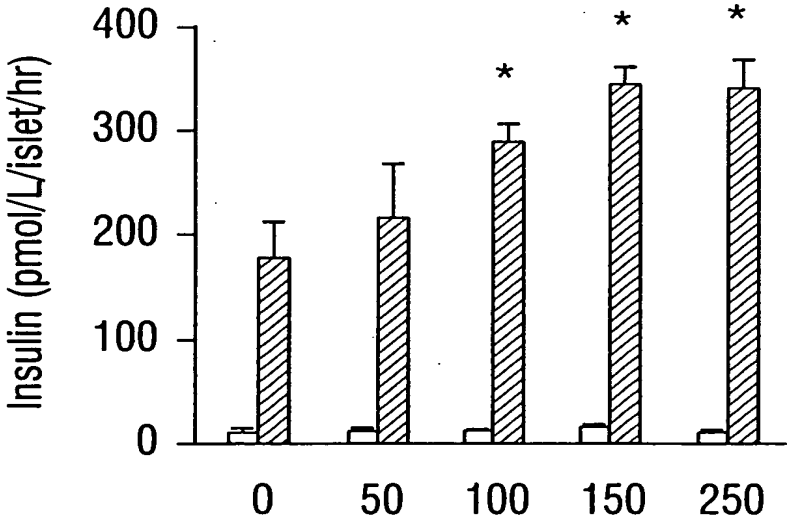

FIG. 8D

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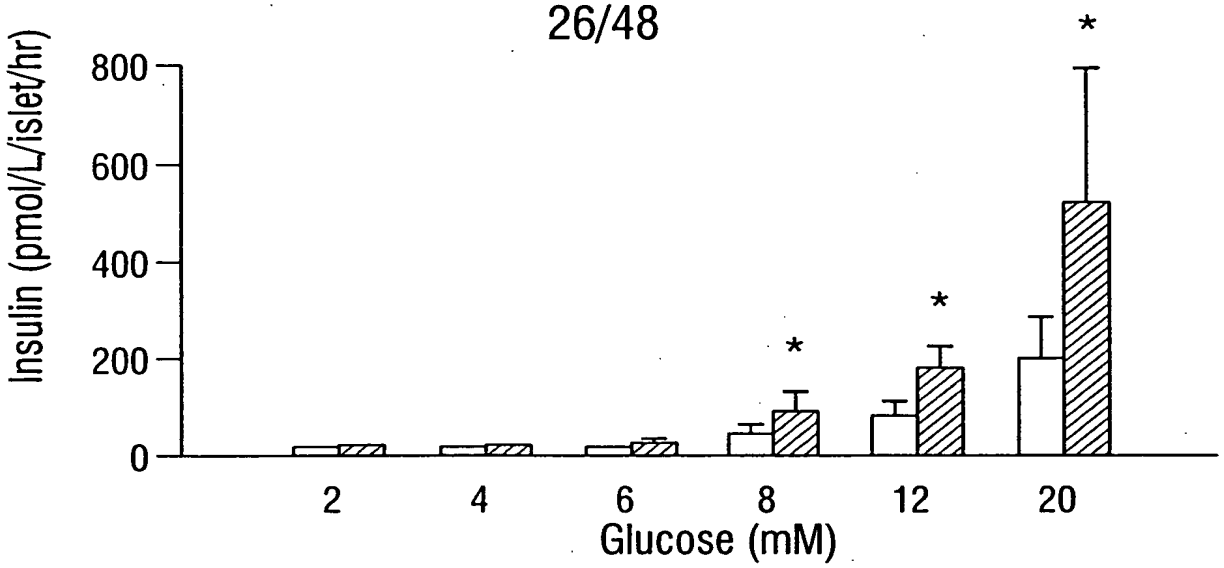

FIG. 9A

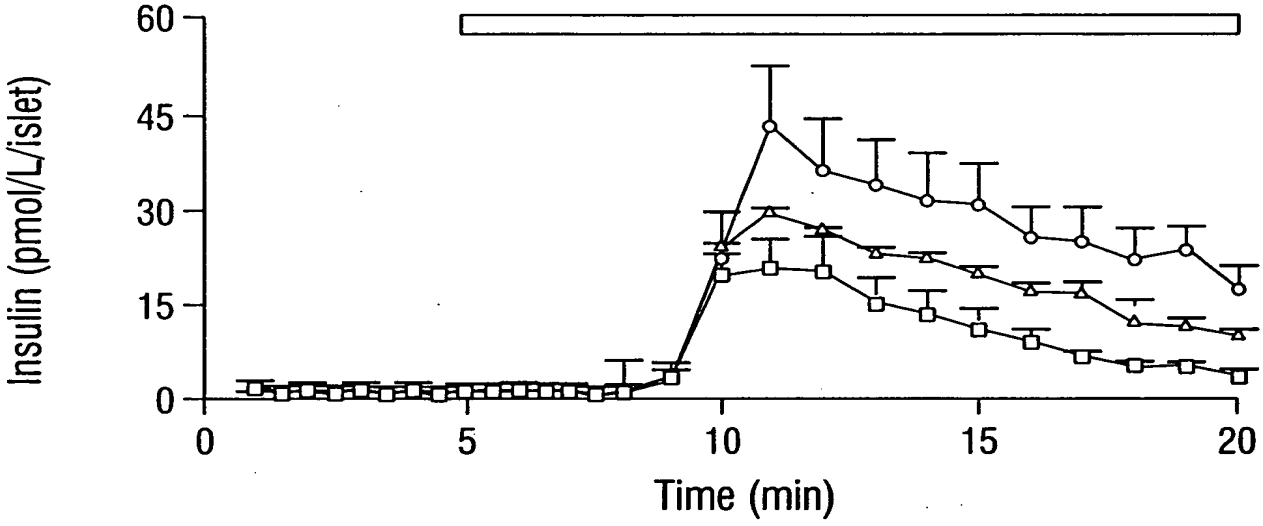

FIG. 9B

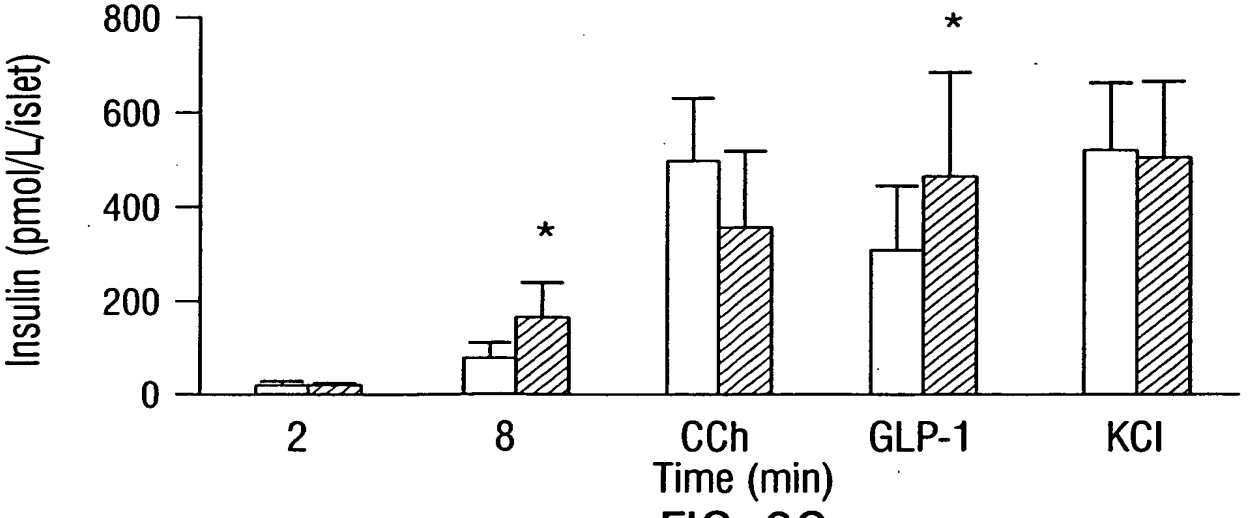

FIG. 9C

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APPROVED O.G. FIG.
BY
DRAFTSMAN
CLASS
SUBCLASS

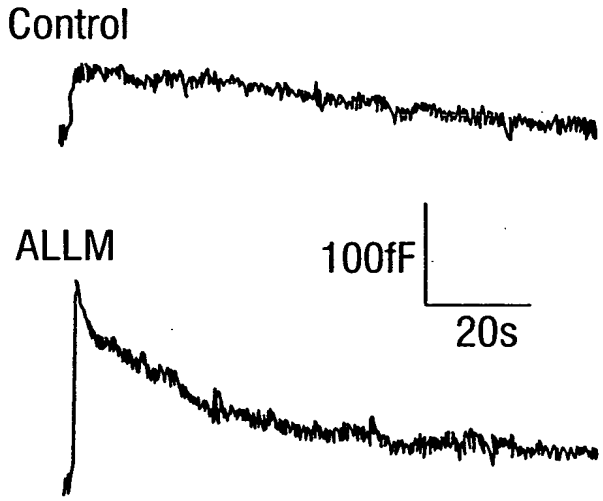

FIG. 10A

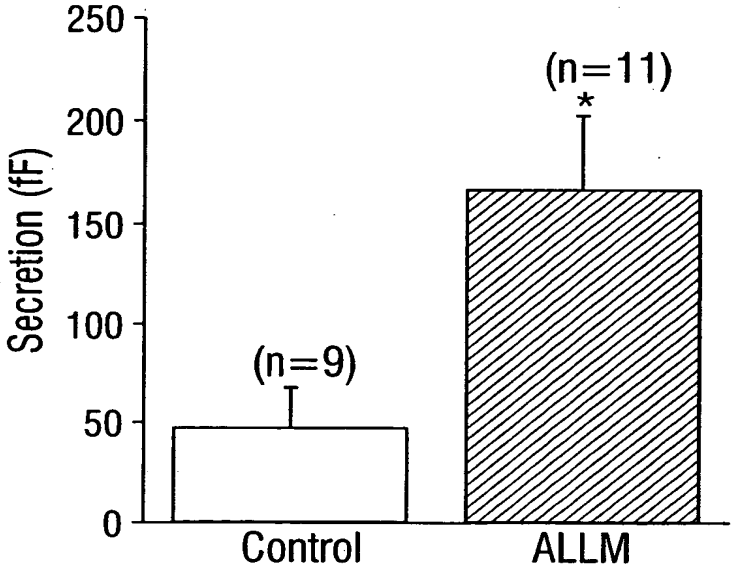

FIG. 10B

OIPE
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APPROVED O.G. FIG.
BY | CLASS | SUBCLASS
DRAFTSMAN

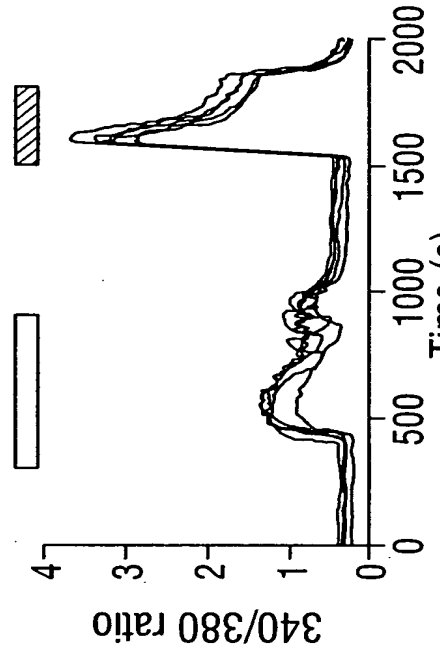

FIG. 11B

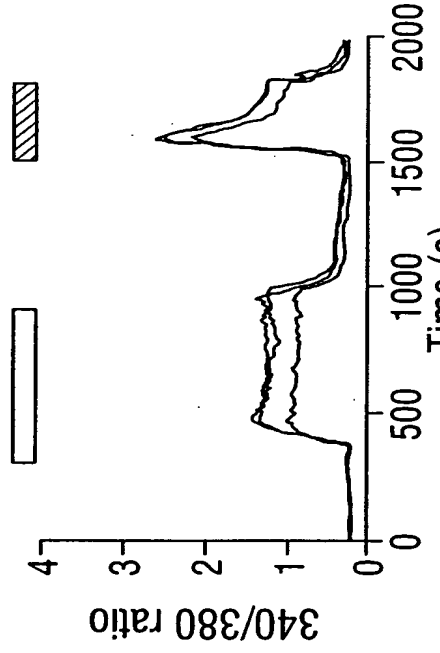

FIG. 11A

OIPE JC156
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APPROVED
BY
DRAFTSMAN
CLASS
SUBCLASS

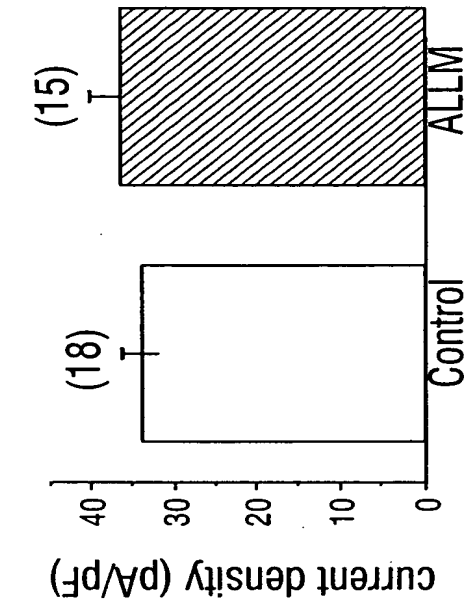

FIG. 11D

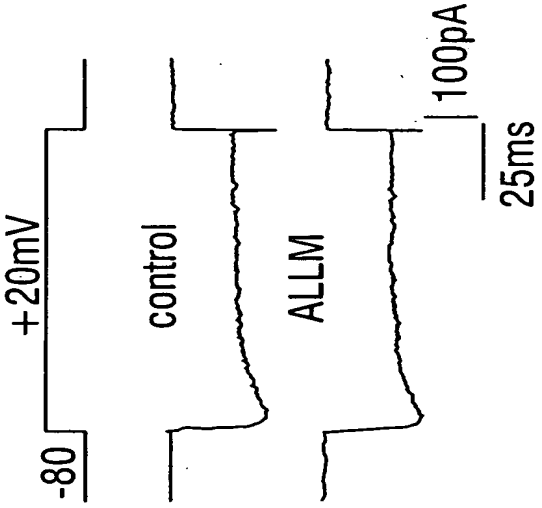

FIG. 11C

OIPE JC156
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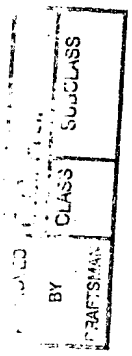
PATENT & TRADEMARK OFFICE



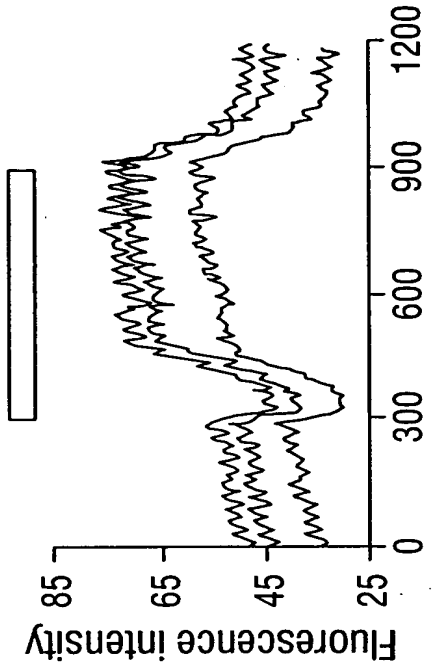


FIG. 11F

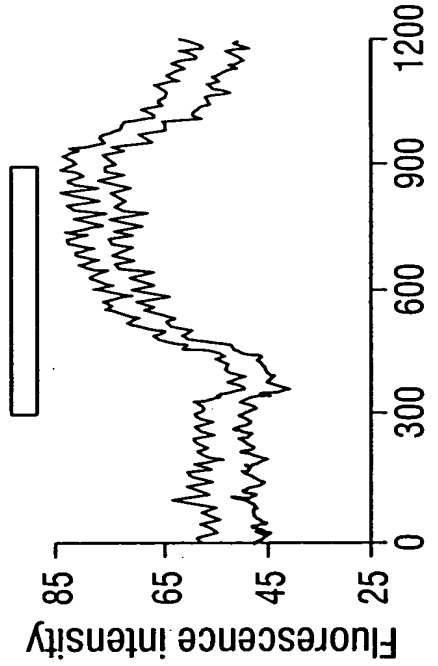


FIG. 11E

OIPE
JAN 2 1 2003
PATENT & TRADEMARK OFFICE
JC156

APPROVED O.G. FIG.
BY
DRAFTSMAN
CLASS
SUBCLASS

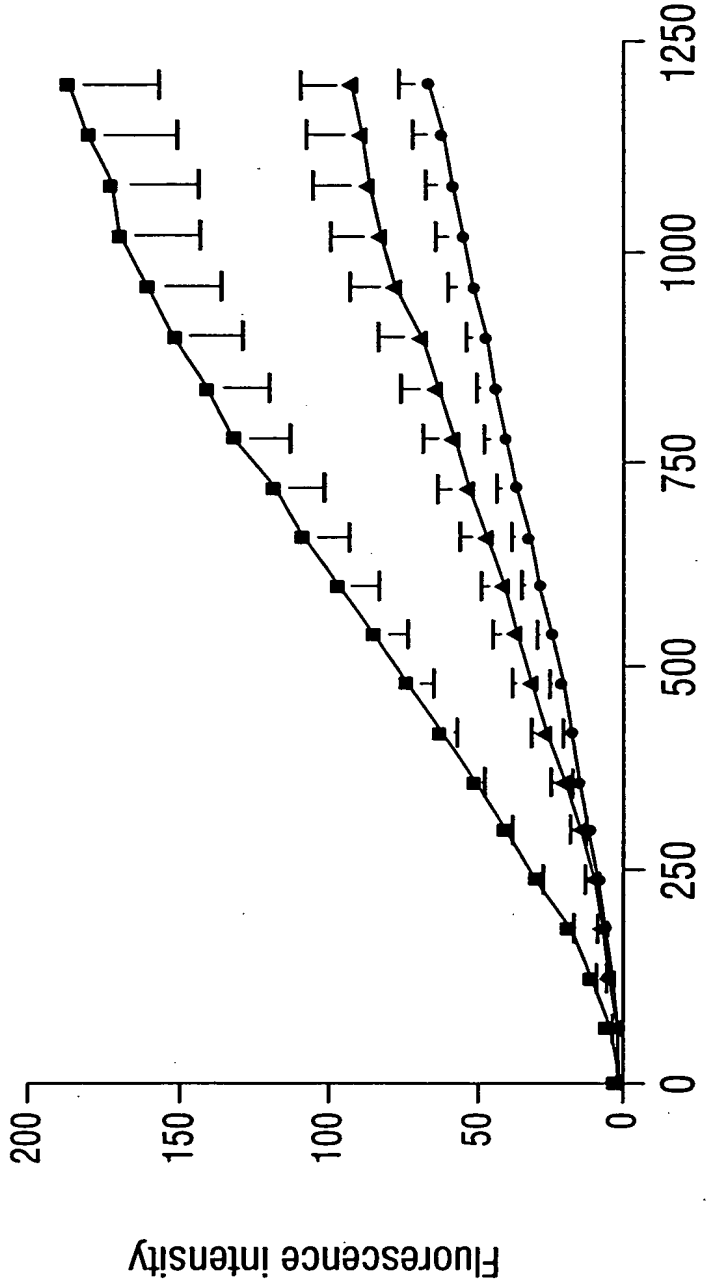


FIG. 12A

OIPE JC156
JAN 2 1 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

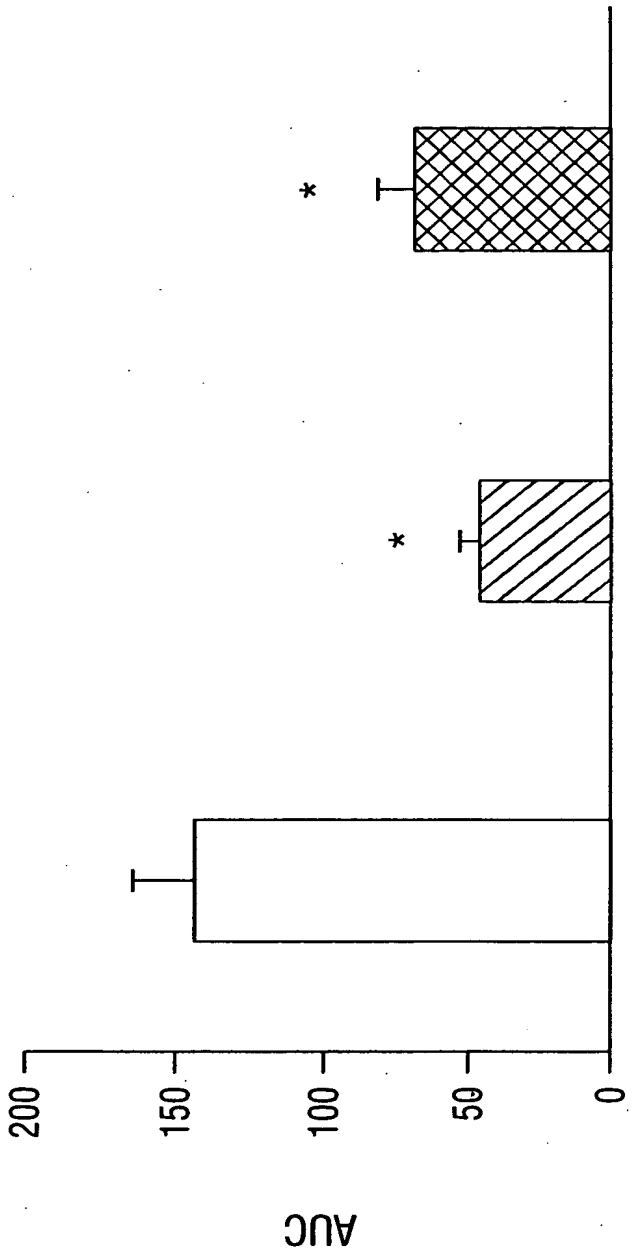


FIG. 12B

OIPE
JAN 2 1 2003
PATENT & TRADEMARK OFFICE

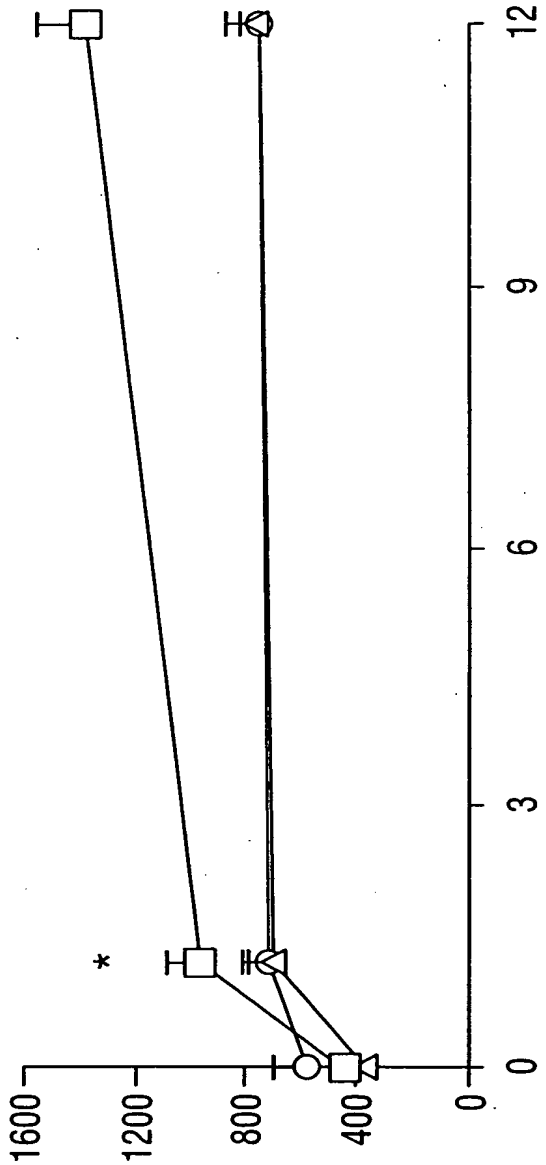


FIG. 13A

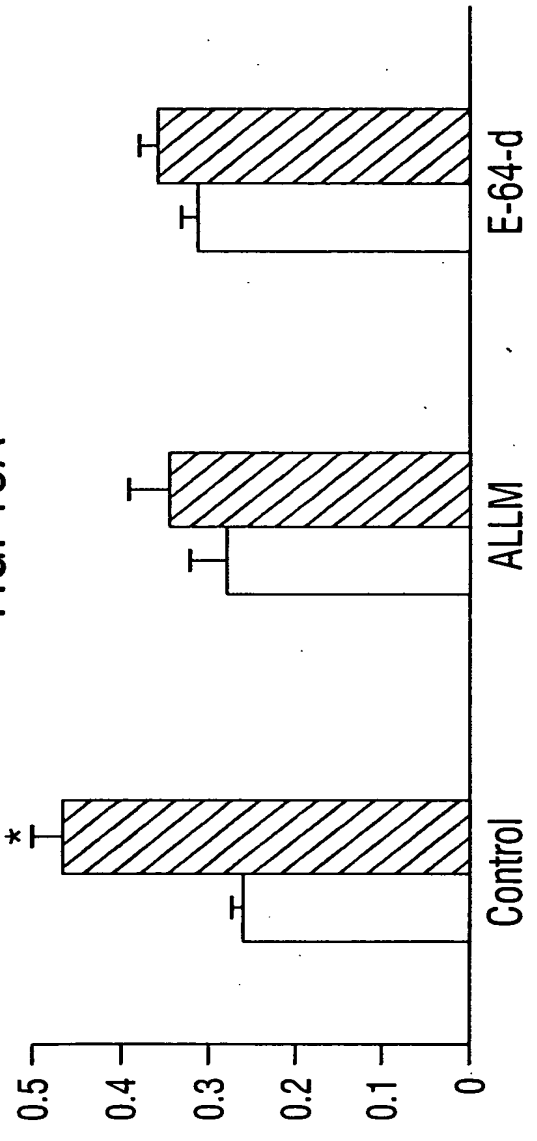


FIG. 13B

O.I.P.E. JC156
JAN 2 1 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

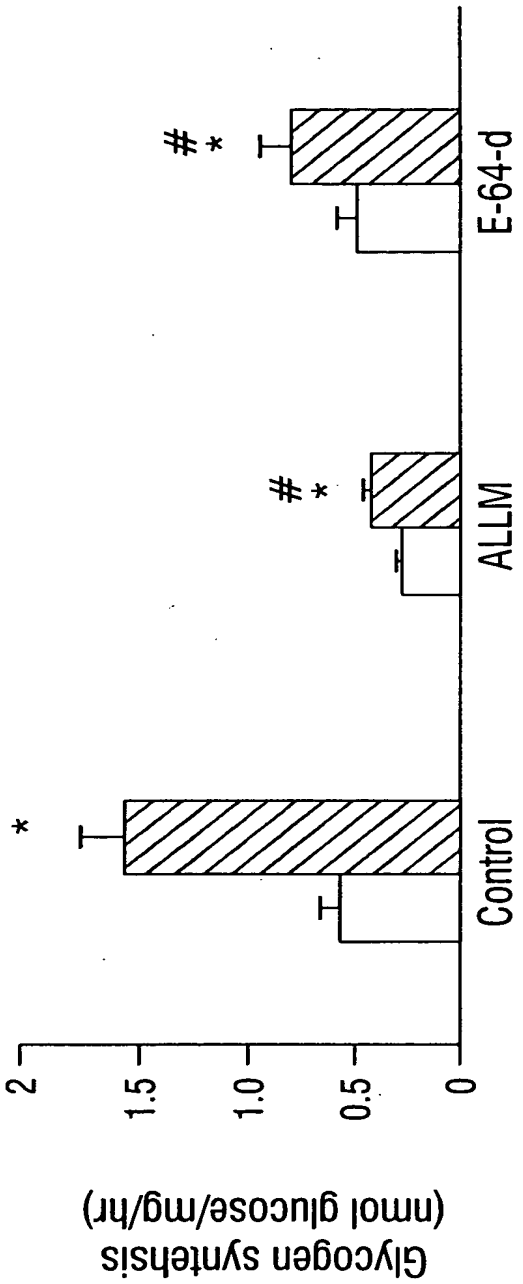


FIG. 13C

OIPE
JAN 21 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

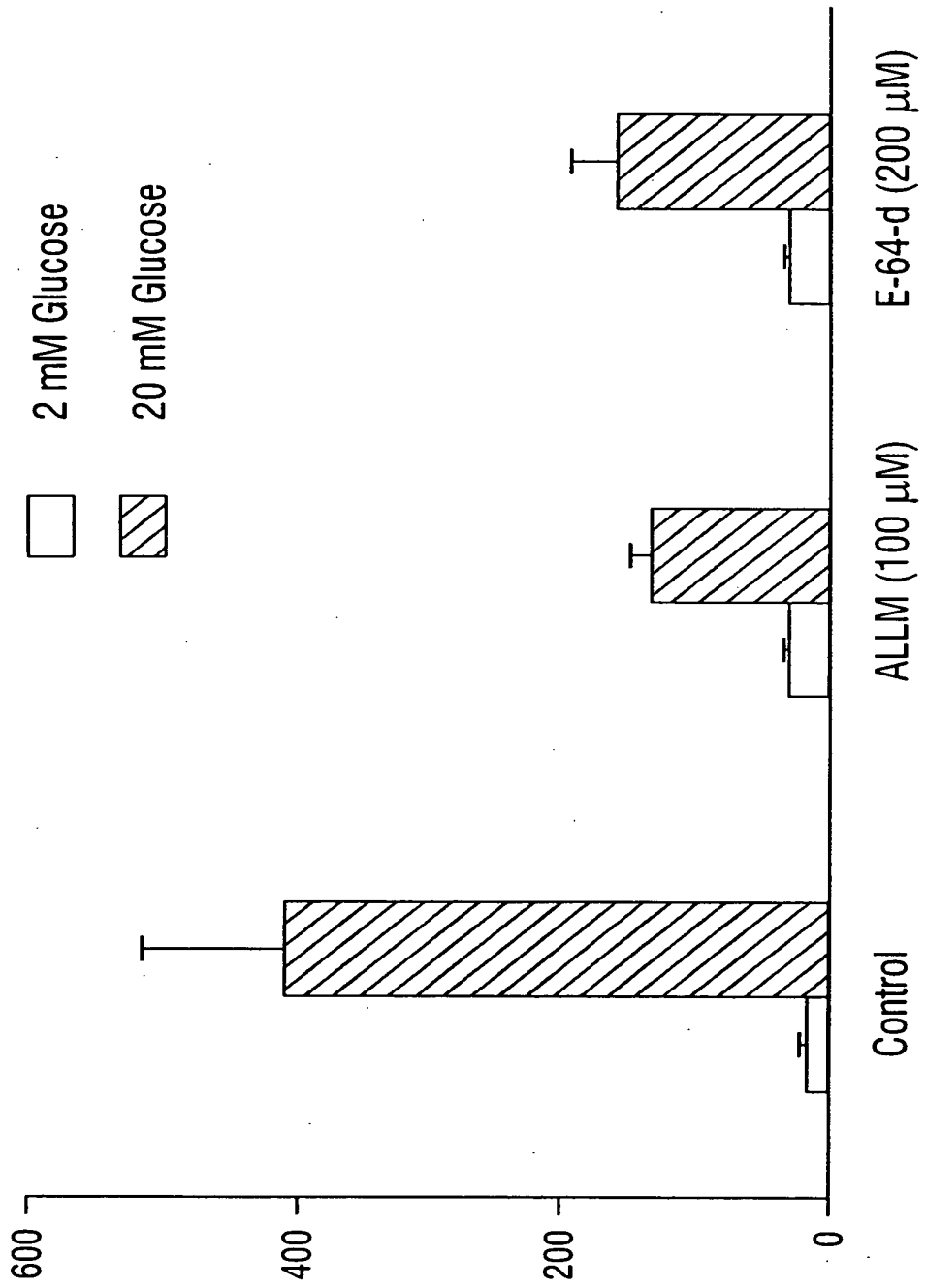


FIG. 14

JAN 21 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

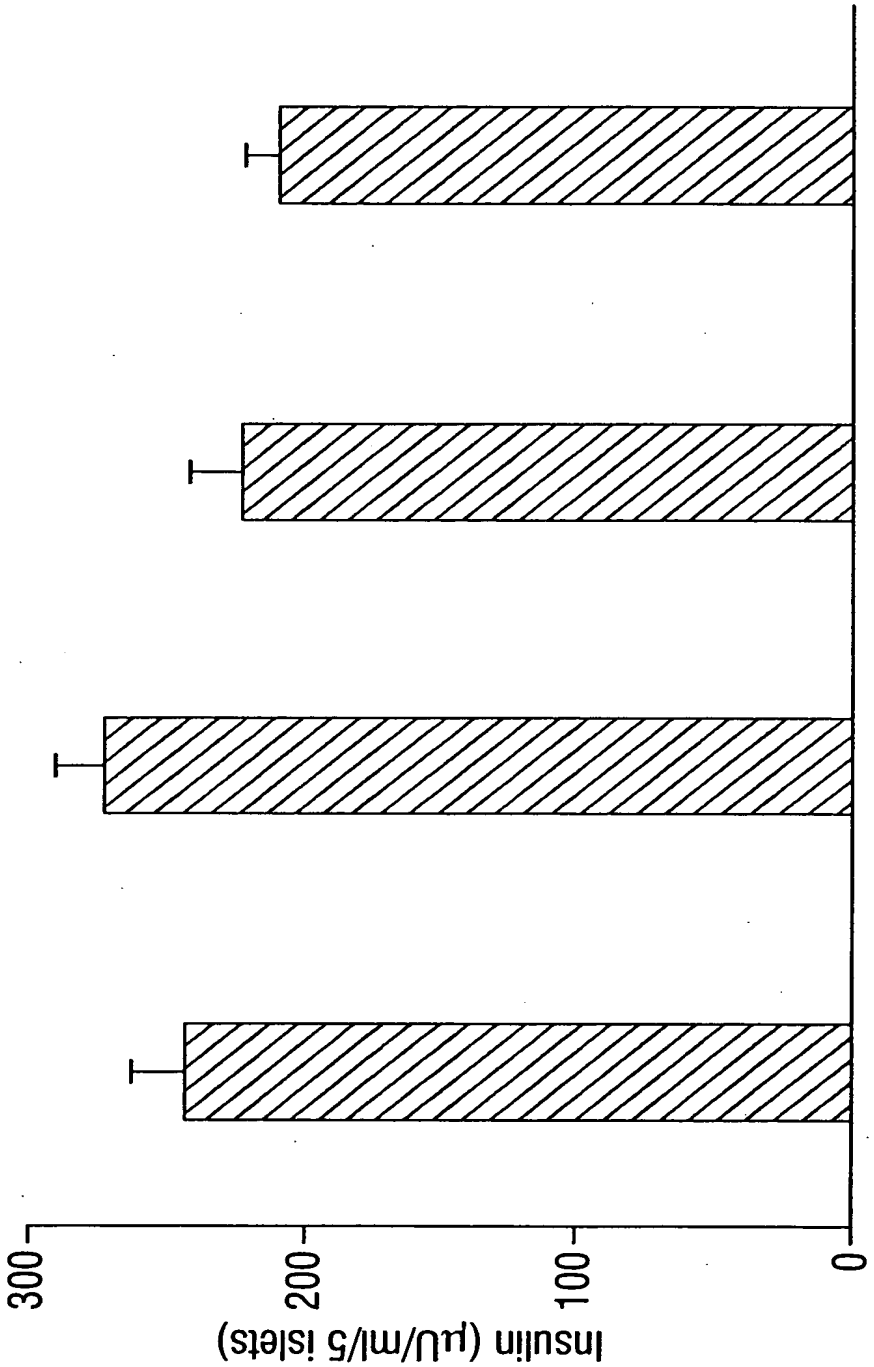


FIG. 15

JAN 2 1 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

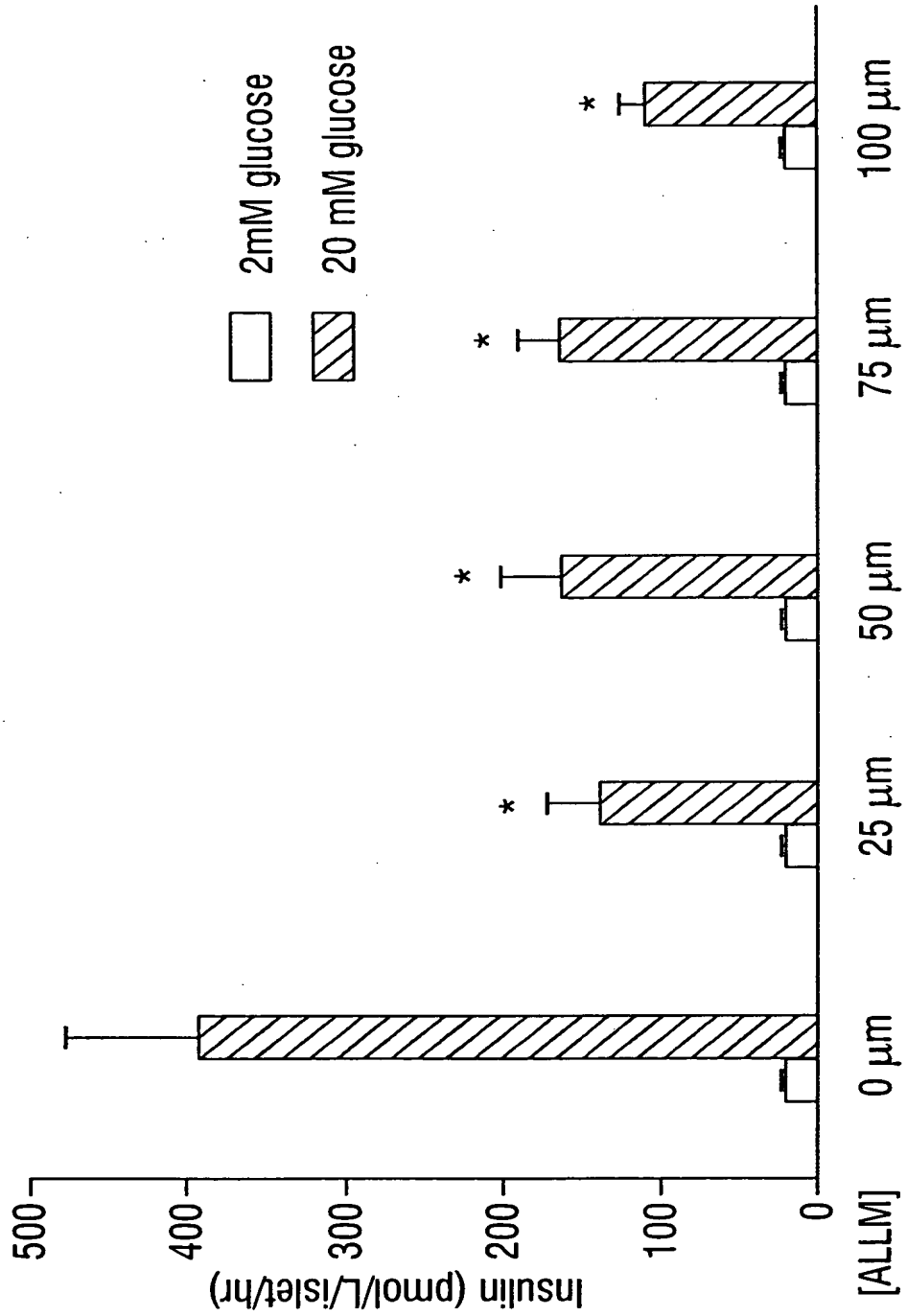


FIG. 16

OIPE JC159
JAN 2 1 2003
PATENT & TRADEMARK OFFICE

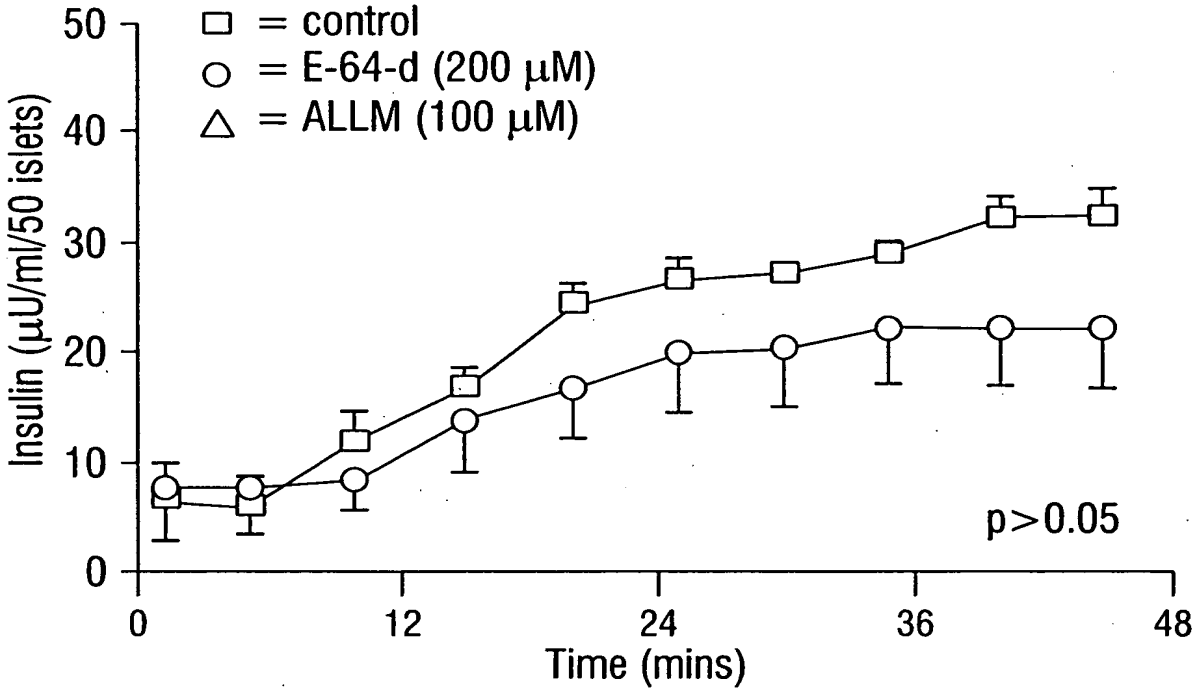


FIG. 17A

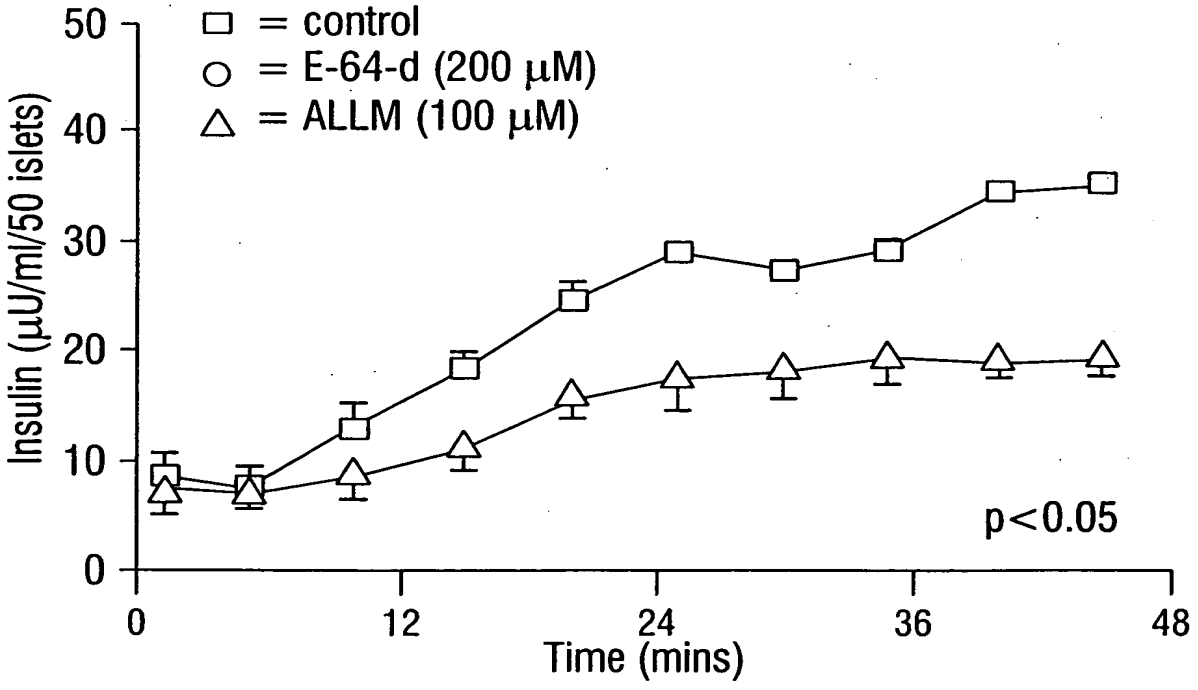


FIG. 17B

OIPE
JAN 21 2003
PATENT & TRADEMARK OFFICE

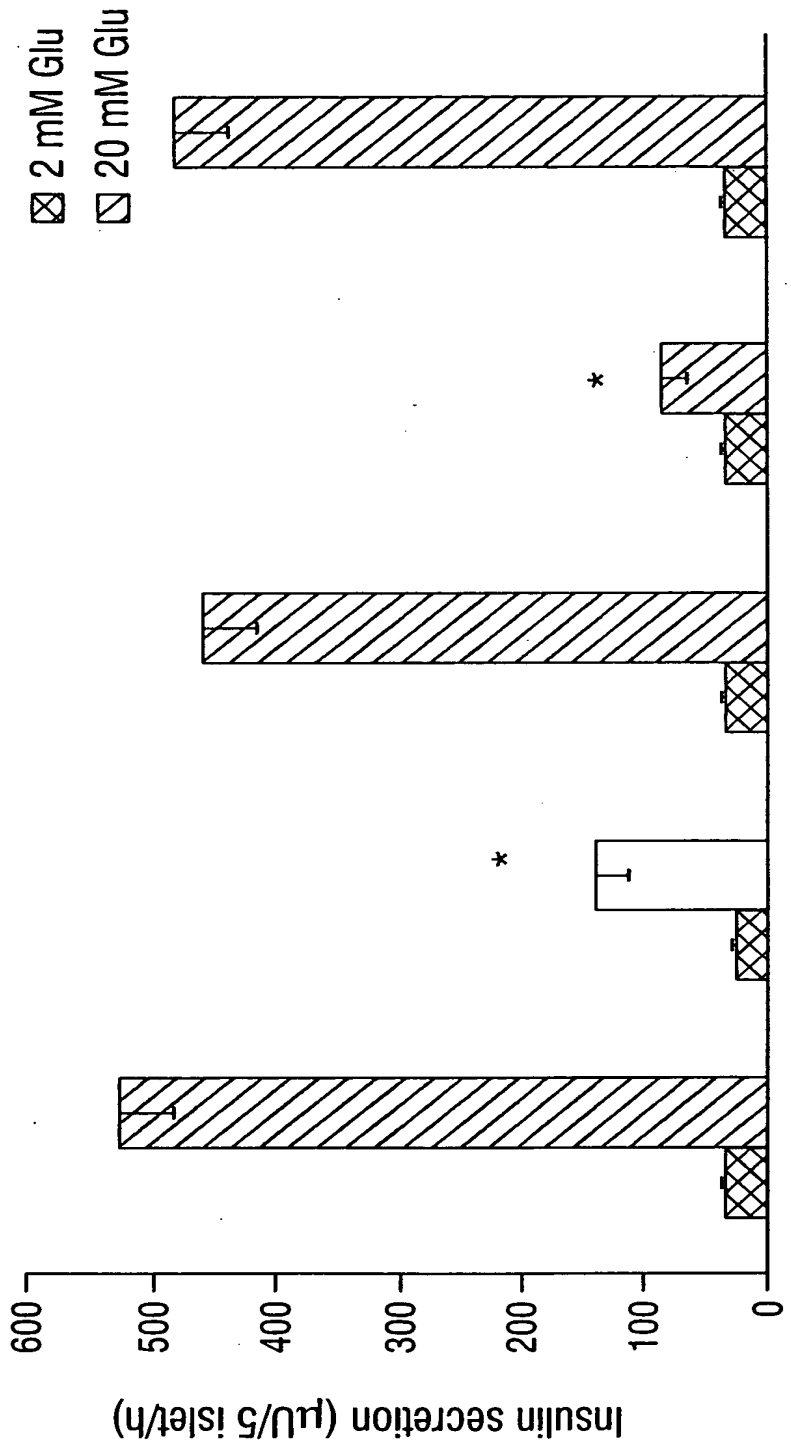


FIG. 18

OIPE
JAN 21 2003
PATENT & TRADEMARK OFFICE
JC156

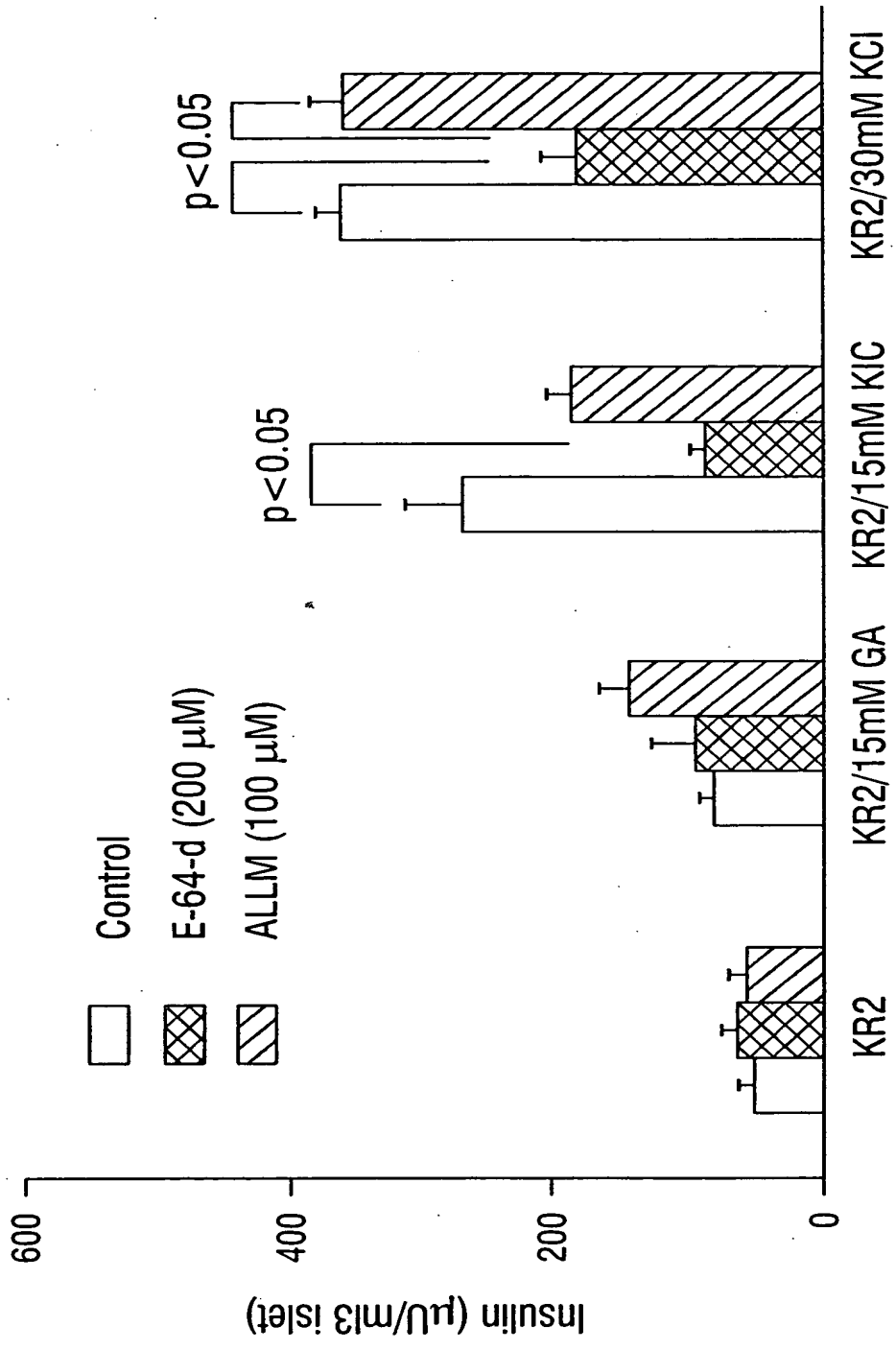


FIG. 19

OIPE JG156
JAN 21 2003
PATENT & TRADEMARK OFFICE

BY CLASS SUBCLASS DRAFTSMAN

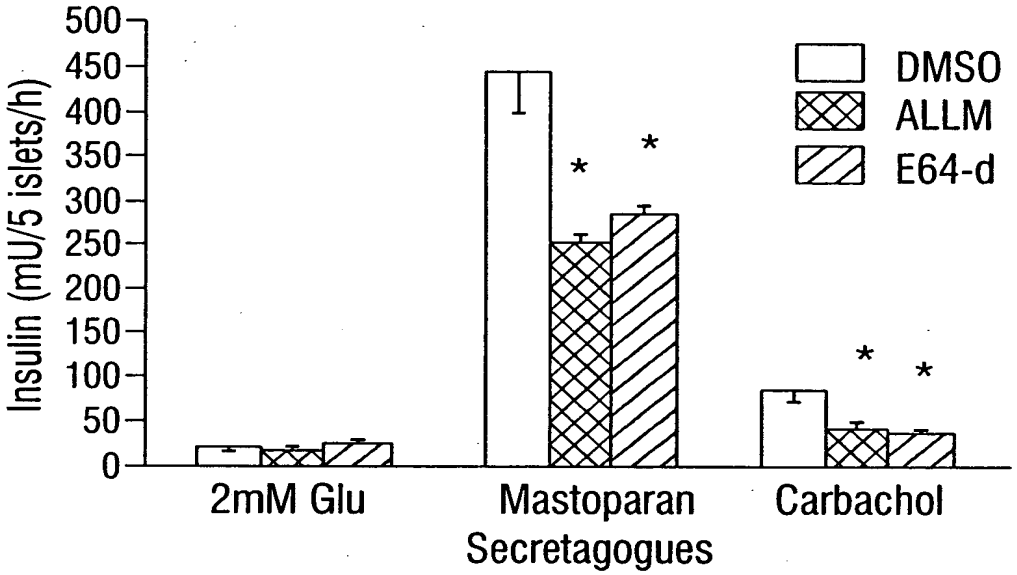


FIG. 20

OIPE
JAN 21 2003
PATENT & TRADEMARK OFFICE
JC156

O.C. FIG.
CLASS
SUBCLASS
APPROVED BY DRAFTSMAN

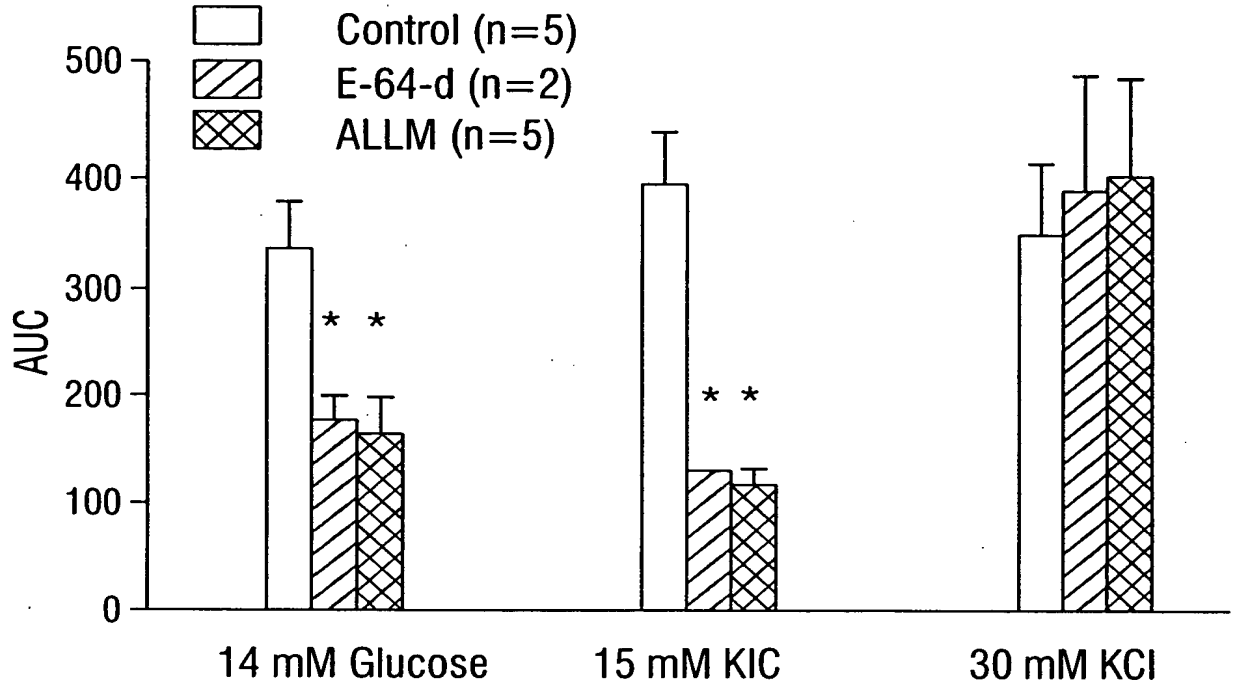


FIG. 21A

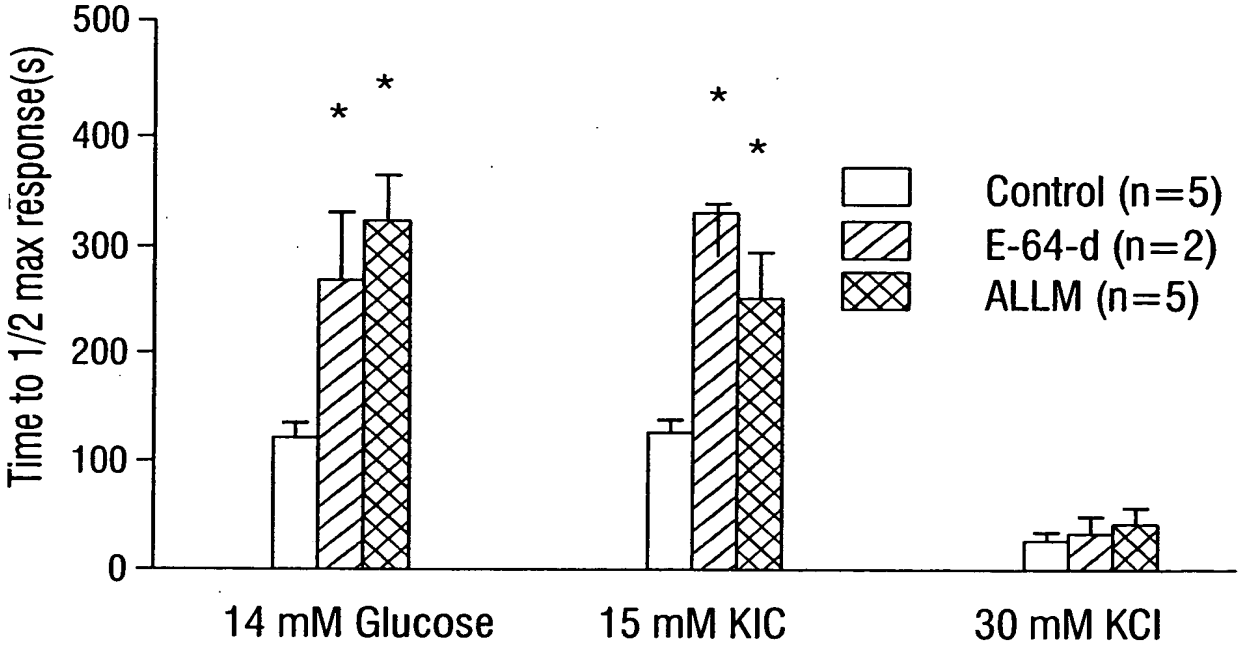


FIG. 21B

OIPE
JAN 21 2003
PATENT & TRADEMARK OFFICE
JC156

APPROVED O.G. FIG.
BY
DRAFTSMAN
CLASS
SUBCLASS

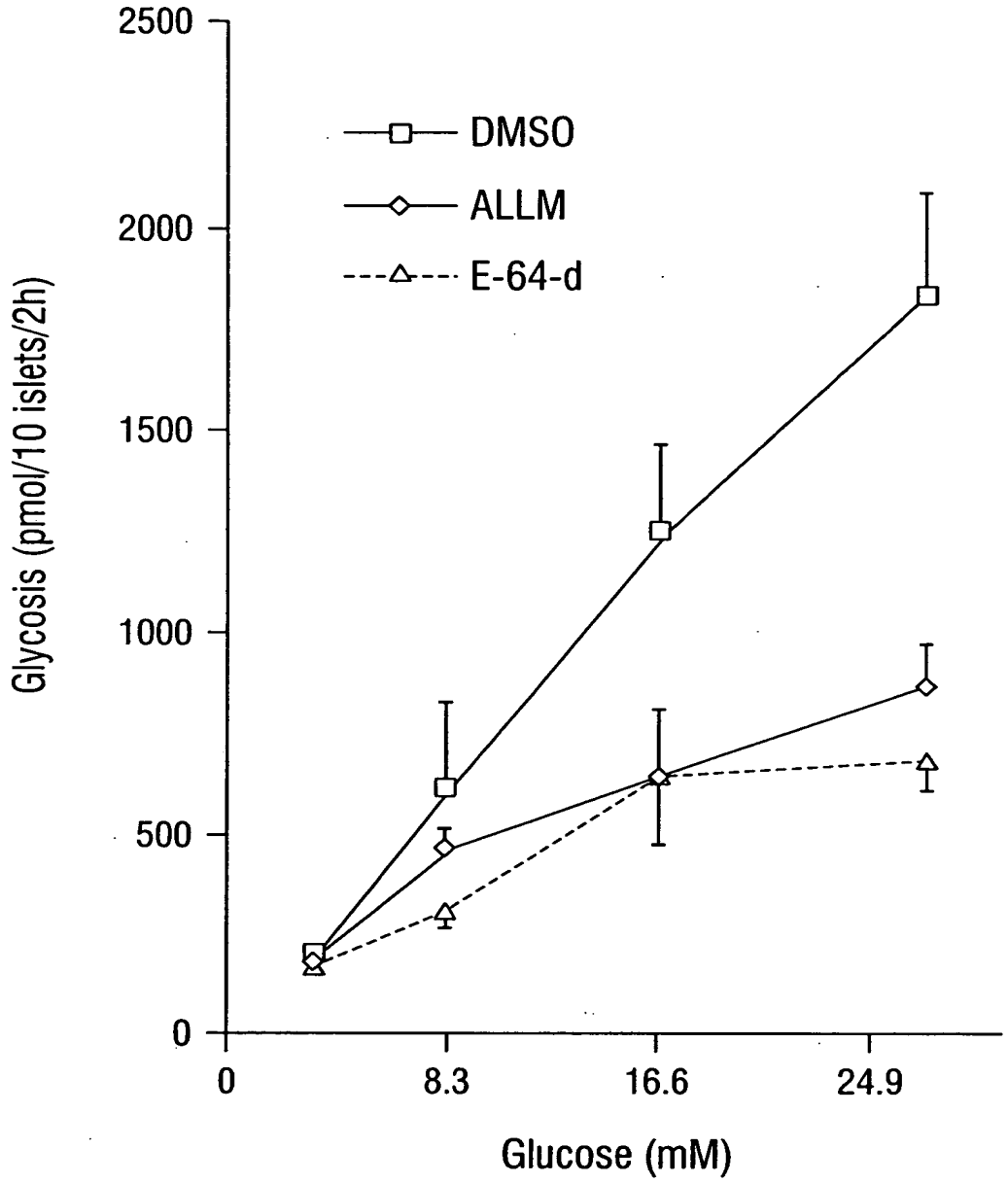


FIG. 22A

OIPE JC15
JAN 21 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

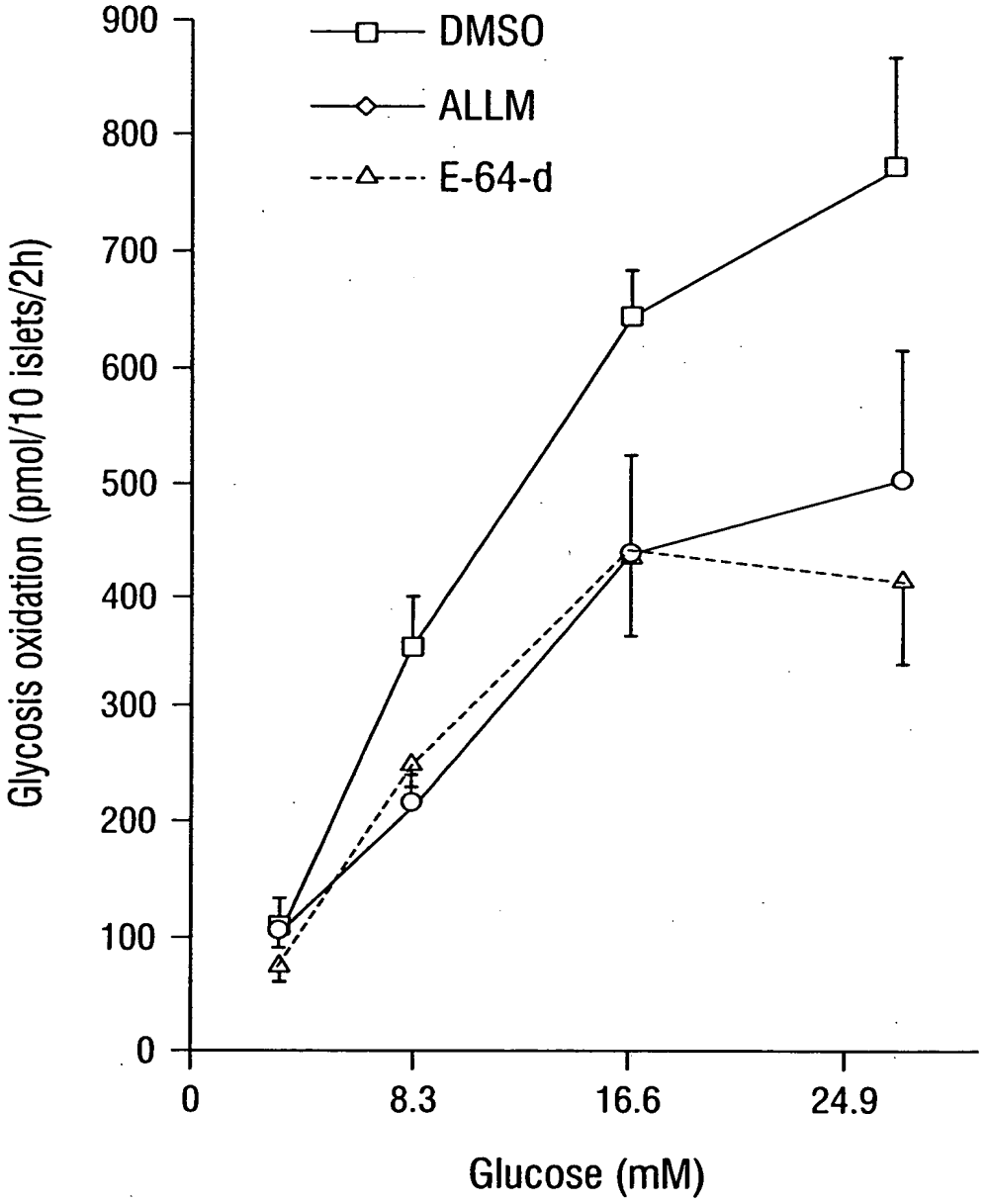


FIG. 22B

OIPE
JAN 21 2003
PATENT & TRADEMARK OFFICE

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

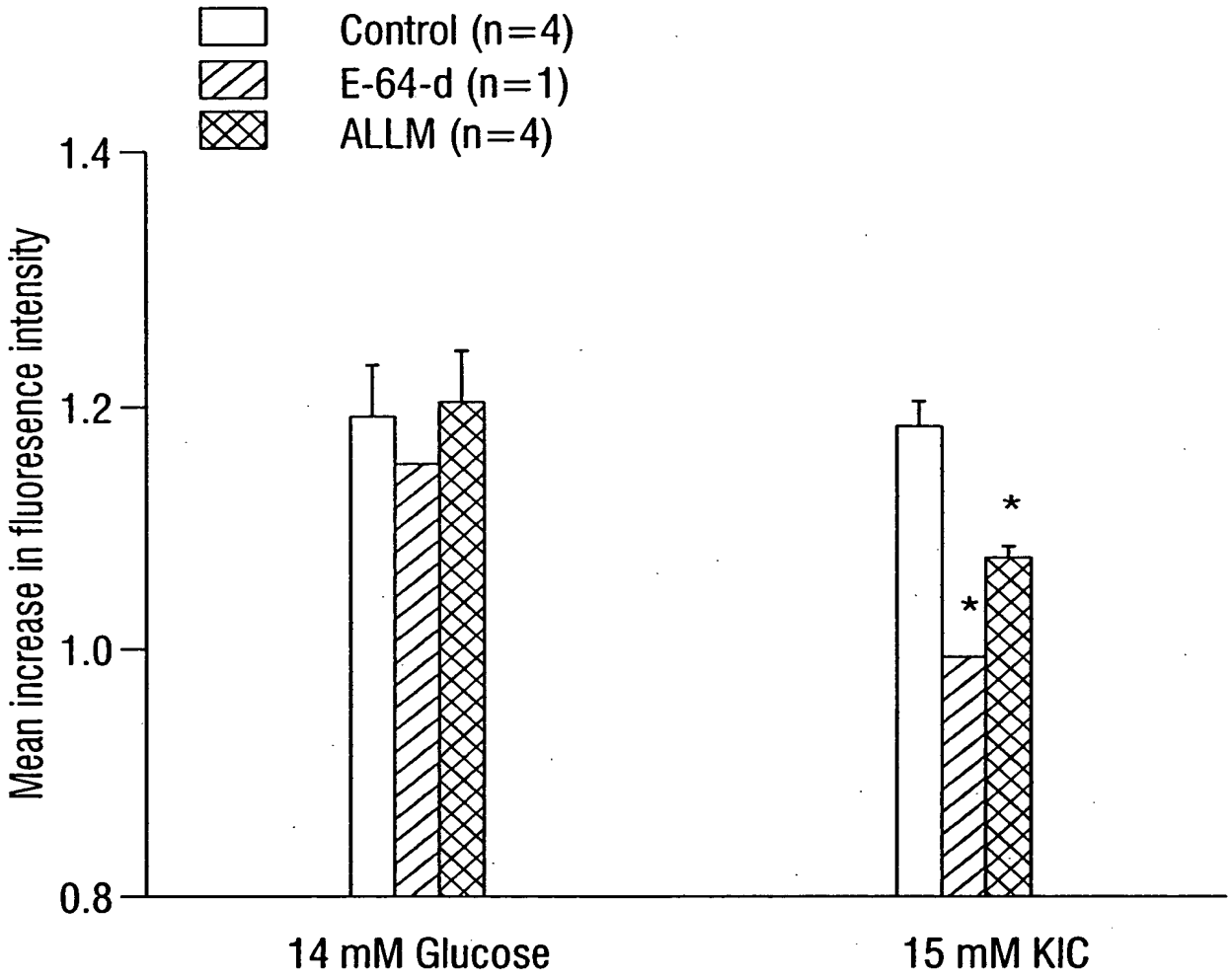


FIG. 23

JAN 2 1 2003
PATENT & TRADEMARK OFFICE

SUBCLASS
CLASS
BY
DRAFTSMAN

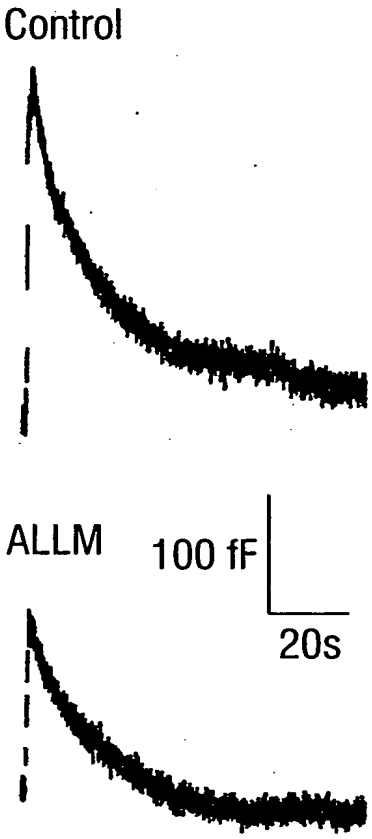


FIG. 24A

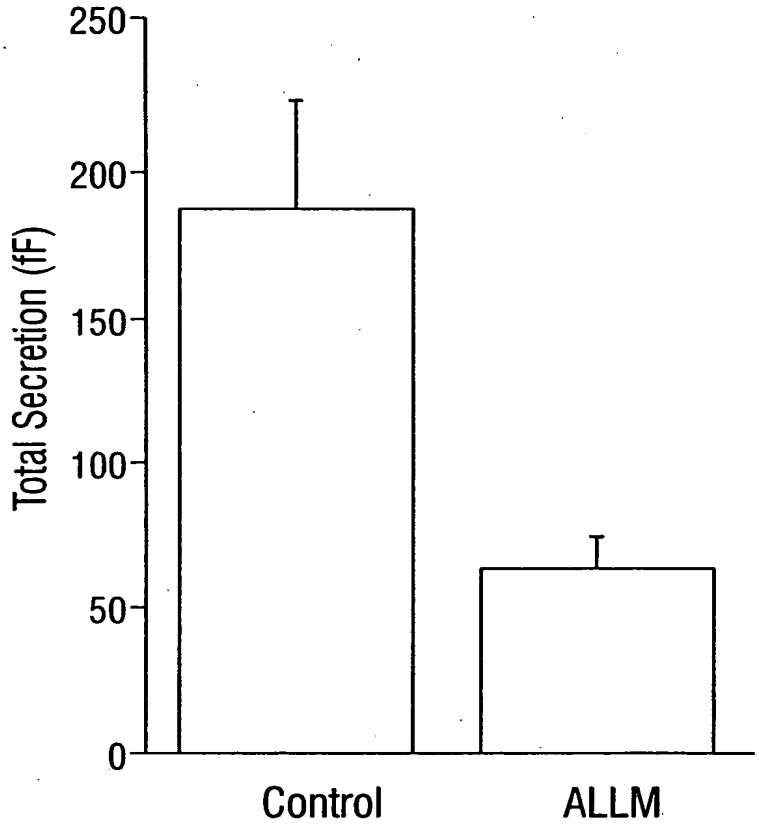
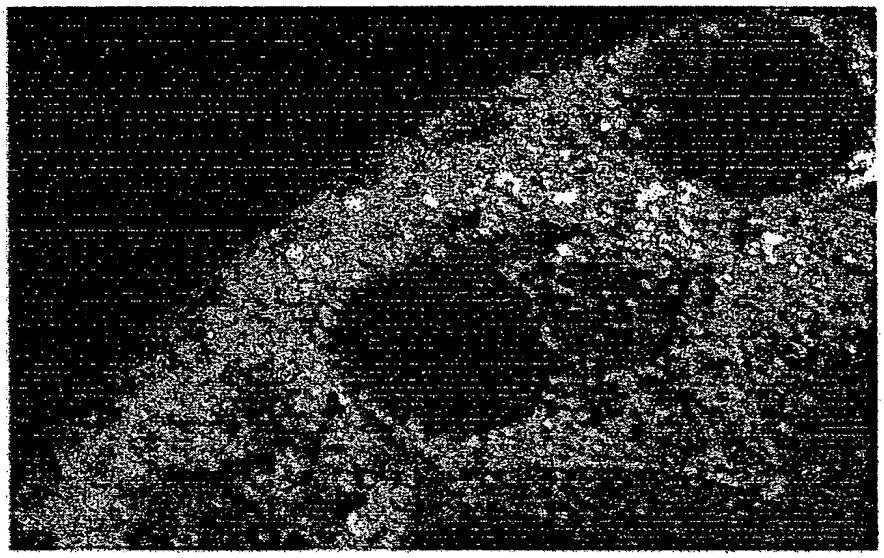


FIG. 24B

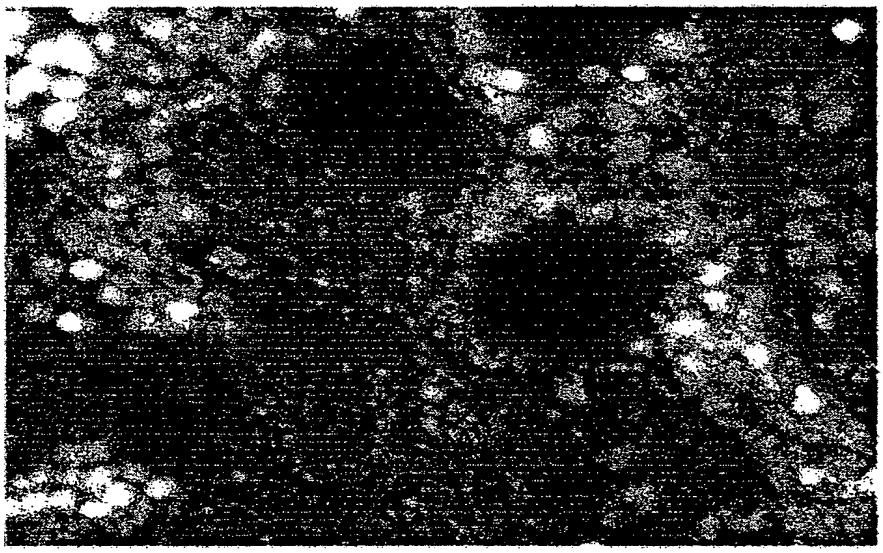
OIPE JC156
JAN 21 2003
PATENT & TRADEMARK OFFICE

APPROVED O.G. FIG.
BY
CLASS
SUBCLASS
DRAFTSMAN

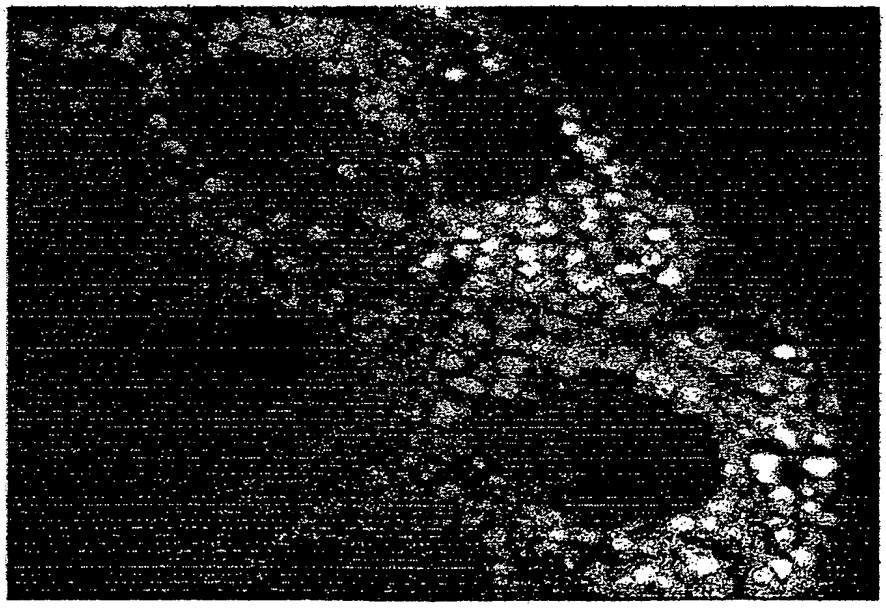
DMSO
FIG. 25A



E64d
FIG. 25A



ALLM
FIG. 25A



OIPE JC156
JAN 21 2003
PATENT & TRADEMARK OFFICE

APPROVED
BY
DRAFTSMAN
CLASS
SUBCLASS

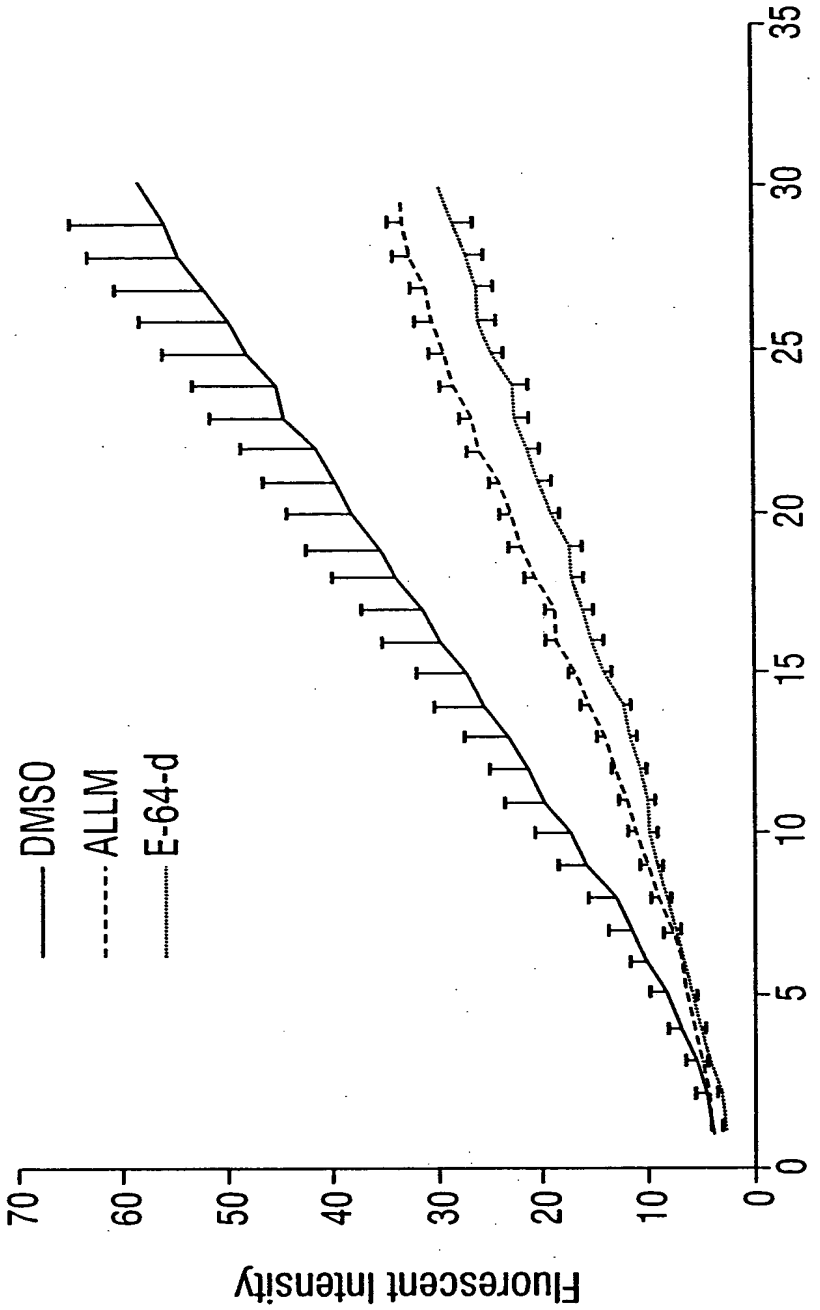


FIG. 26